

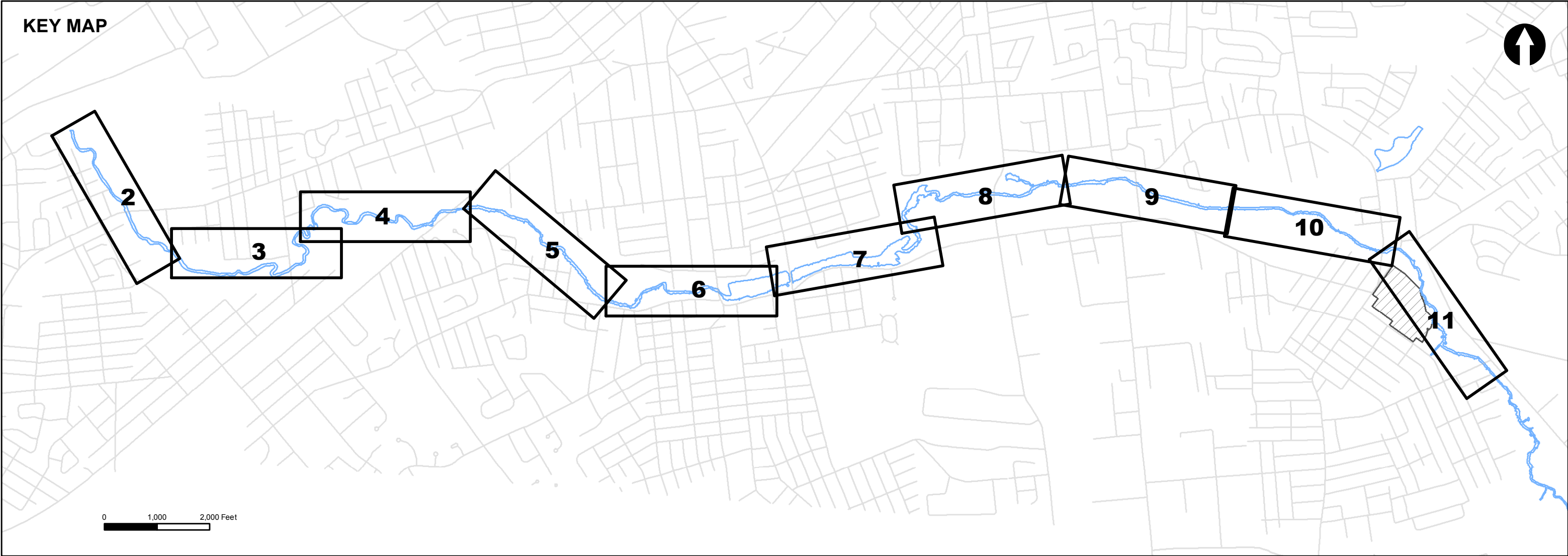
Cornell-Dubilier Electronics
Superfund Site
South Plainfield, New Jersey

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Depositional Areas based on Modeling Results
Bound Brook OU4 RI/FS

2014

Figure 3-1



Legend

- Bound Brook Centerline (RM)
- Dams (Natural and Manmade)
- Pipes Crossing the Brook
- Shoreline
- Former Cornell Dublier Electronics Facility
- T1-A Sample Location ID

Panel A

Texture

- Coarse Sand
- Coarse to Fine Sand
- Coarse to Medium Sand
- Medium to Fine Sand
- Fine Sand
- Silt
- Silt with Clay
- Clay with Silt
- Cobbles
- Gravel
- Hard Bottom

New Market Pond

- Sand as interpreted by the side scan sonar
- Rock-Gravel-Sand as interpreted by the side scan sonar
- Silt as interpreted by the side scan sonar

Panel B

- | Depth to Refusal (ft.) | Depth Advanced Without Refusal* (ft.) |
|------------------------|---------------------------------------|
| 0.0 - 1.0 | 0.0 - 1.0 |
| 1.1 - 2.0 | 1.1 - 2.0 |
| 2.1 - 3.0 | 2.1 - 3.0 |
| 3.1 - 4.0 | 3.1 - 4.0 |
| 4.1 - 5.0 | 4.1 - 5.0 |
| > 5.1 | 5.1 - 6.5 |

*Probe rod not long enough to accommodate water depth and to encounter refusal.

Sources:

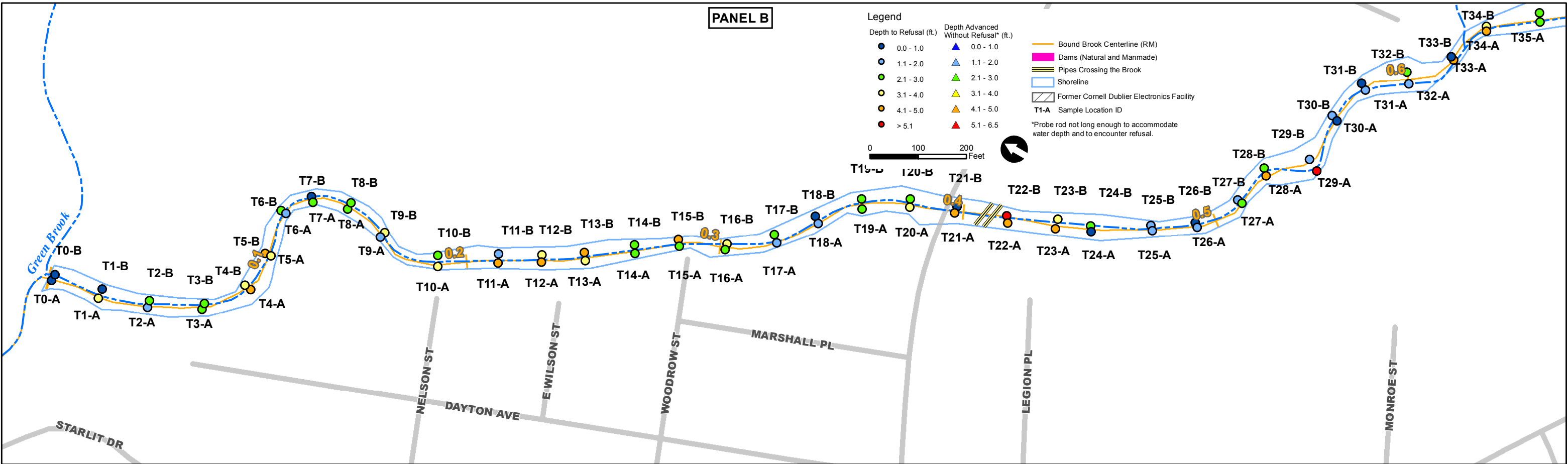
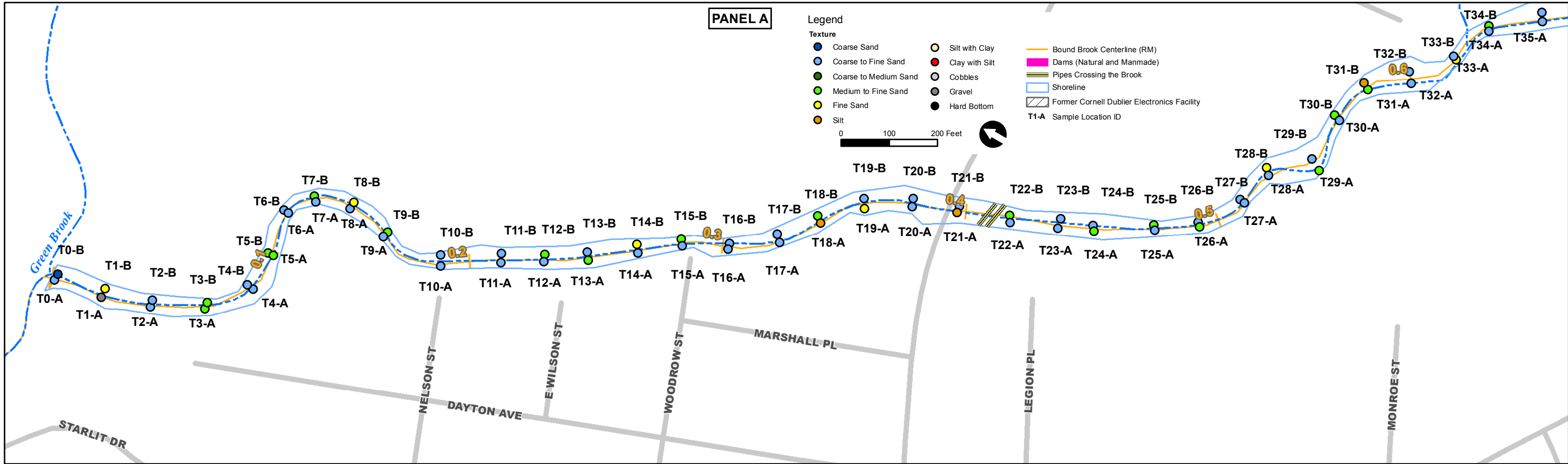
- 1) Background Data - Street Information, NJDOT, 2012; Streams, NJDEP, 2002.
- 2) Shoreline was adapted from a Tetra Tech, Inc. shoreline shapefile, which was adjusted to be consistent with information collected in the field, aerial imagery provided by Penoni Associates, Inc., and 2002 aerial imagery from the New Jersey Office of Information Technology (Office of GIS).
- 3) "Hard bottom" is a generic term that covers all types of hard material that the probe rod could not penetrate (e.g., cinderblocks, rip-rap, bedrock, rock, or hard debris). Only exposed bedrock at the surface can be visually identified and confidently classified as "weathered, fractured bedrock."



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DRAFT FINAL KEY MAP
Sediment Probing Interpretation
Bound Brook OU4 RI/FS

2014
Figure 3-2
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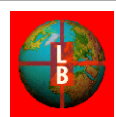
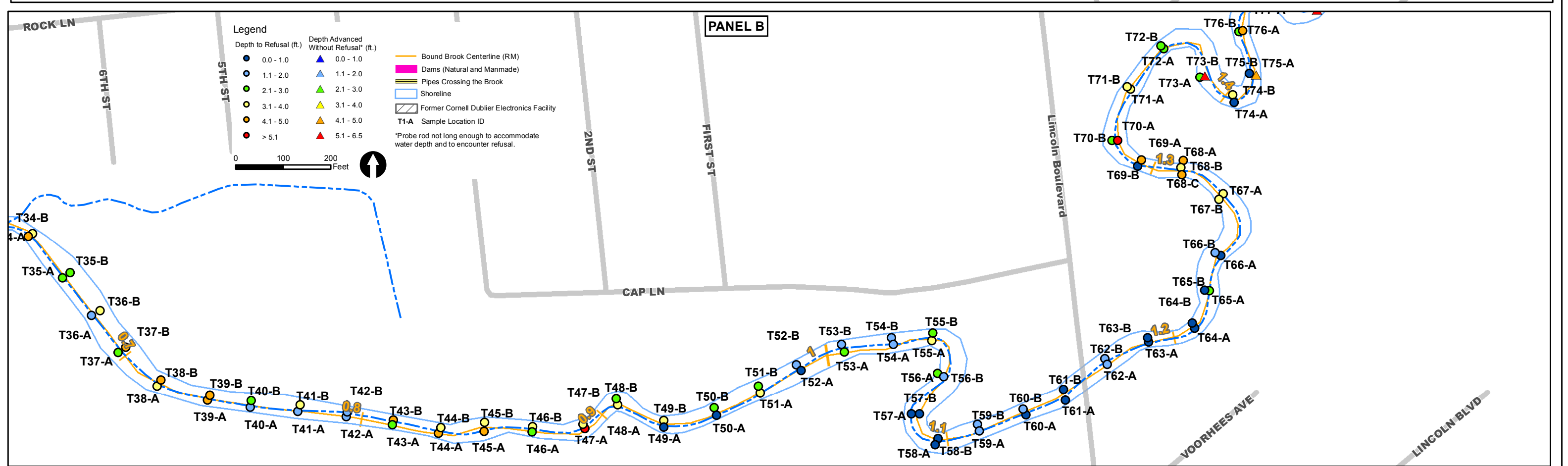
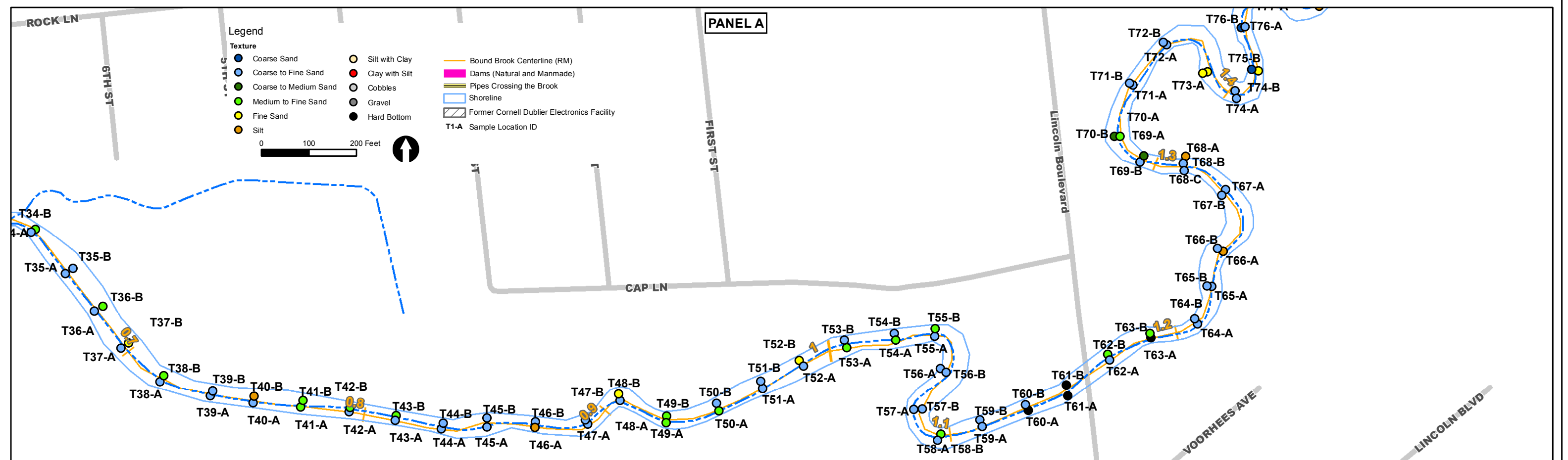
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Sediment Probing Interpretation
Panel A: Surface Sediment Texture and Panel B: Depth of Refusal
Bound Brook OU4 RI/FS

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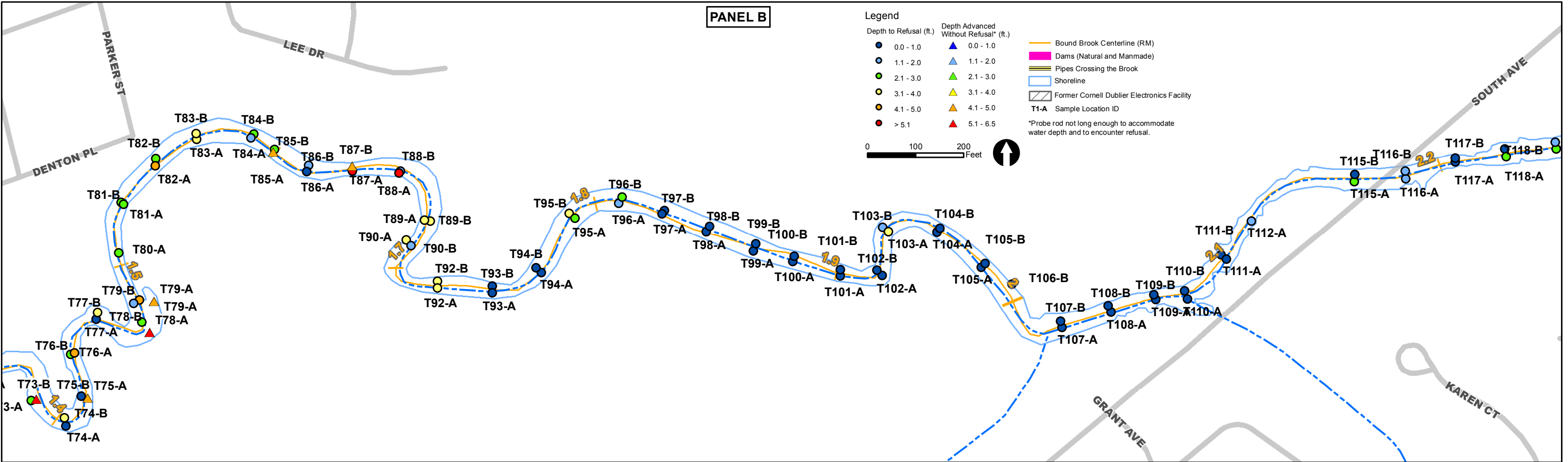
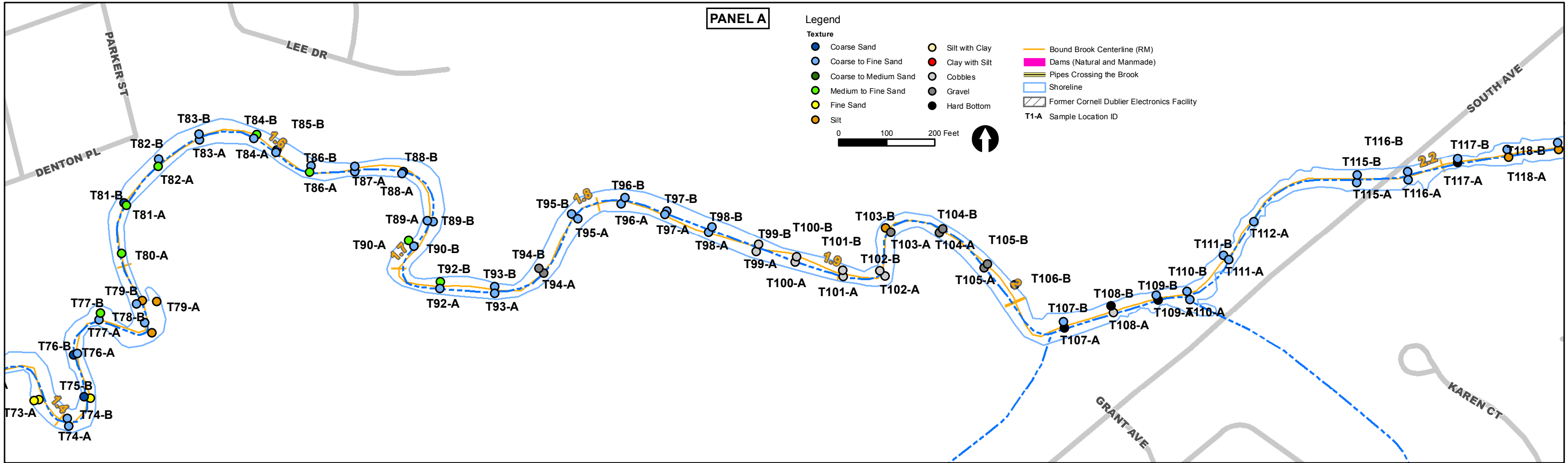
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Bound Brook OU4 RI/FS

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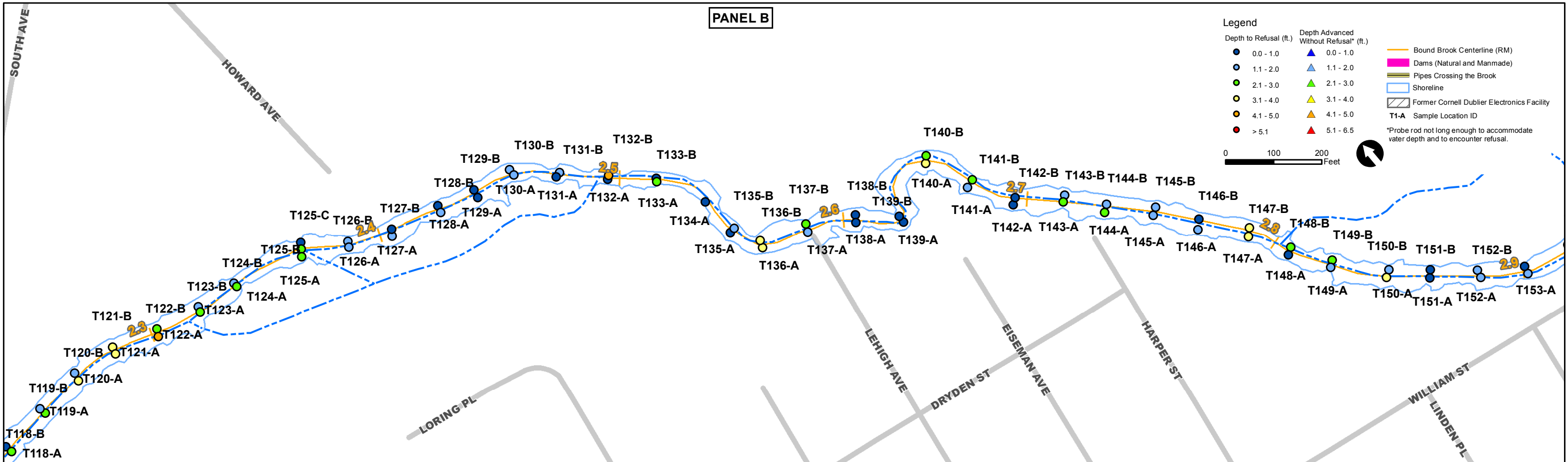
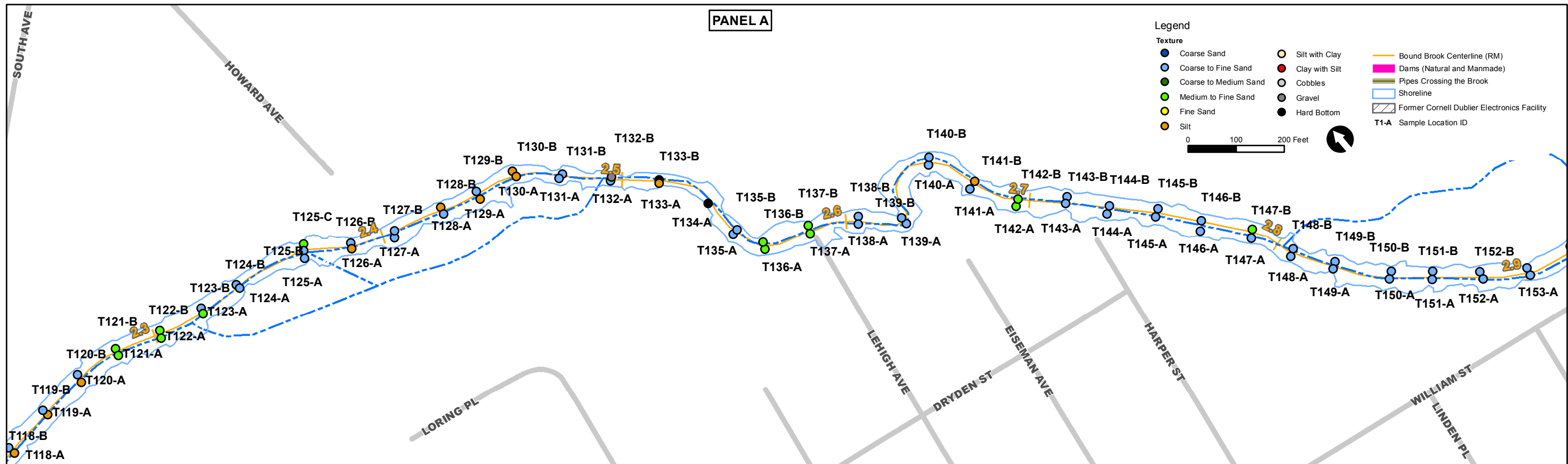
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Sediment Probing Interpretation
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Bound Brook OU4 RI/FS

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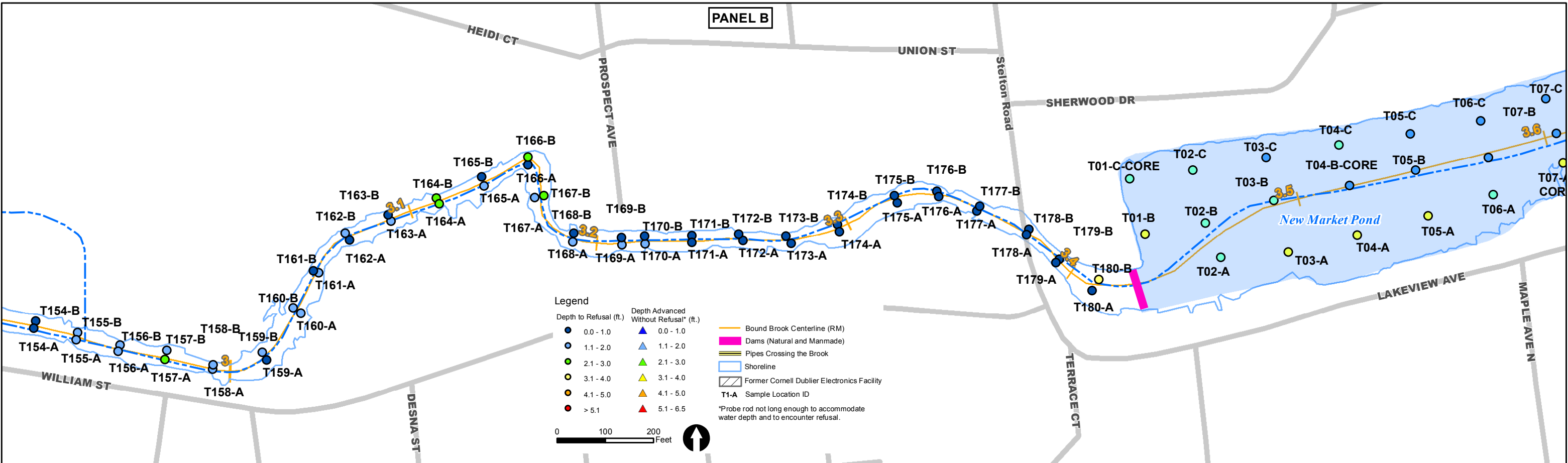
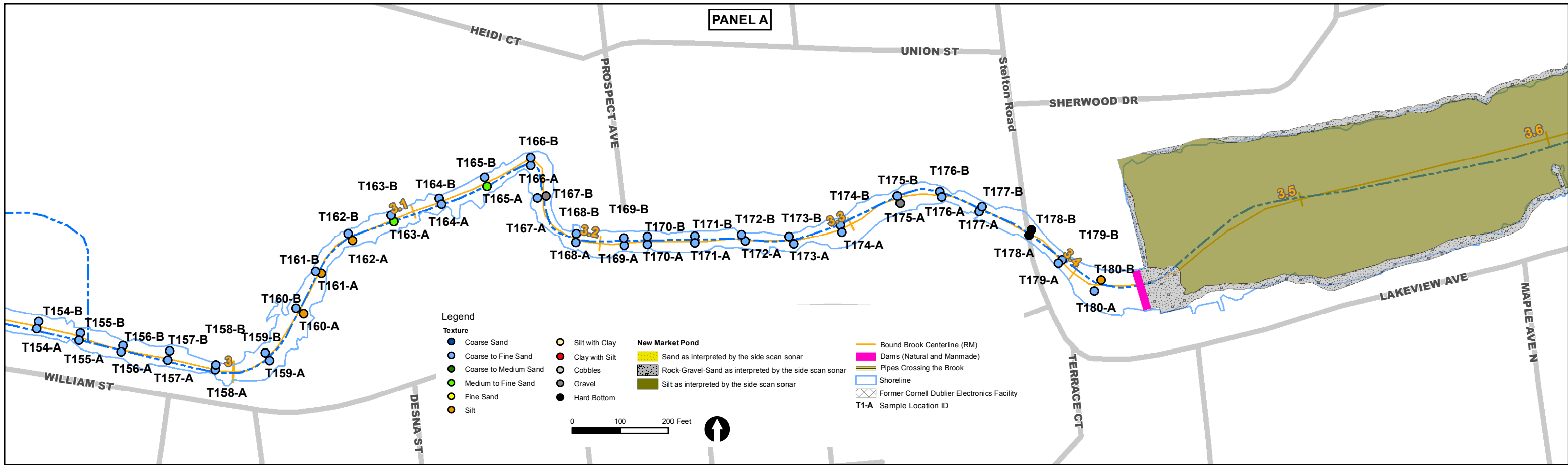
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Bound Brook OU4 RI/FS

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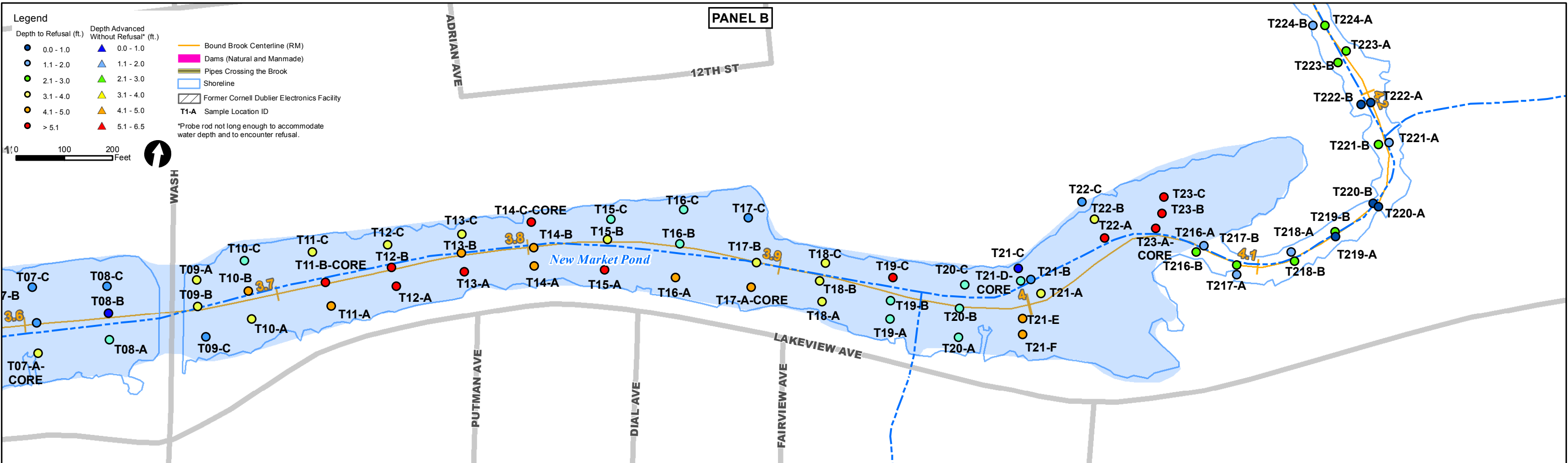
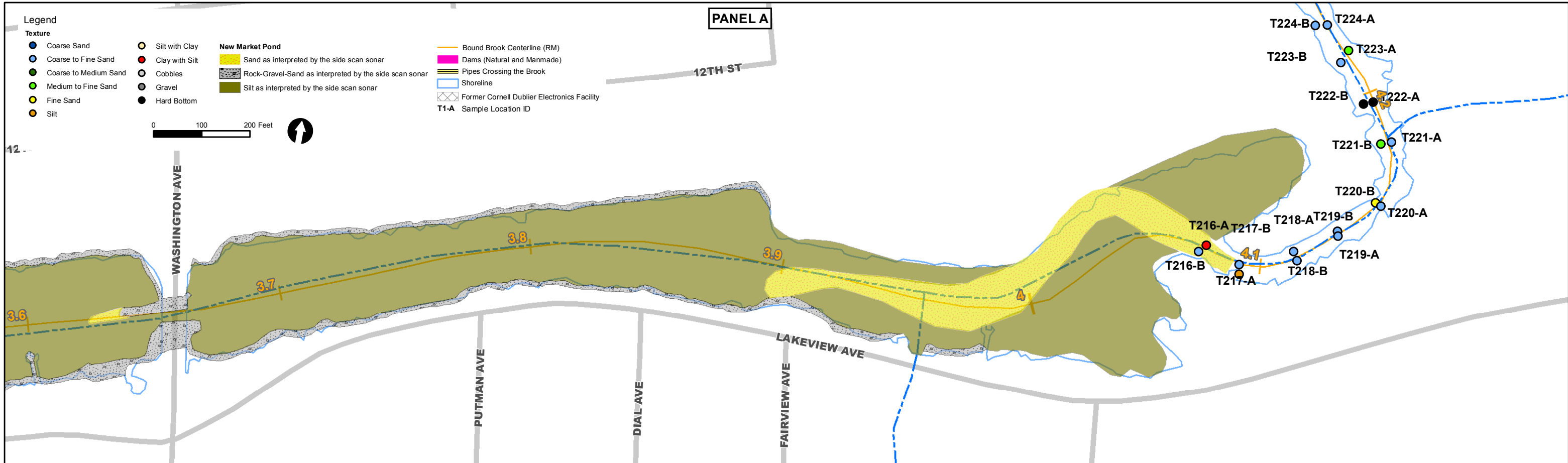
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Bound Brook OU4 RI/FS

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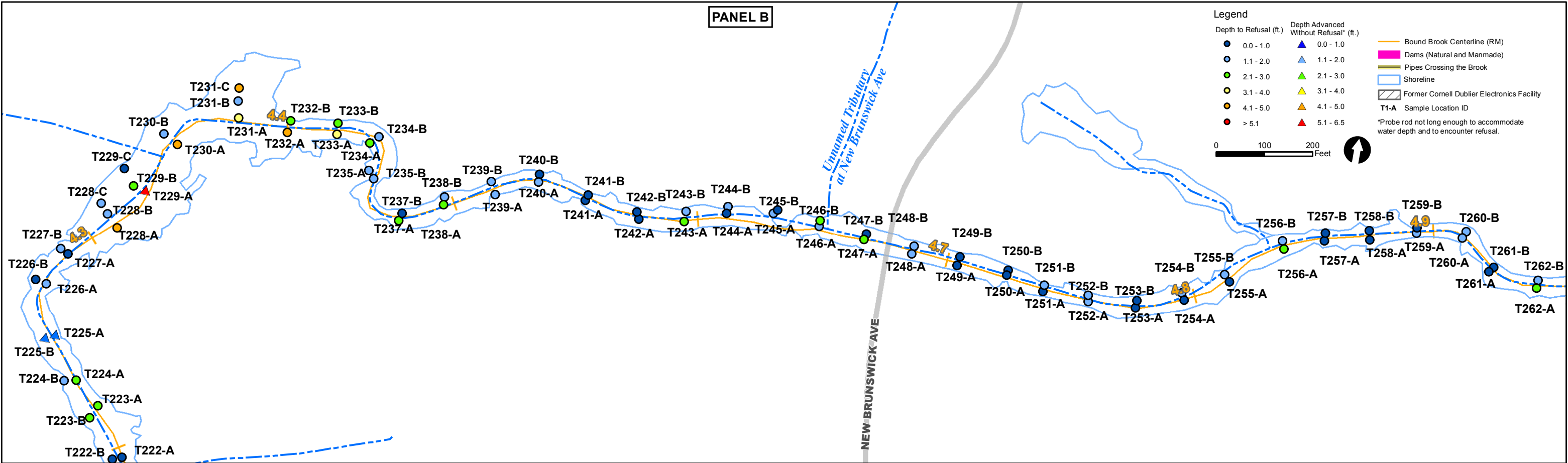
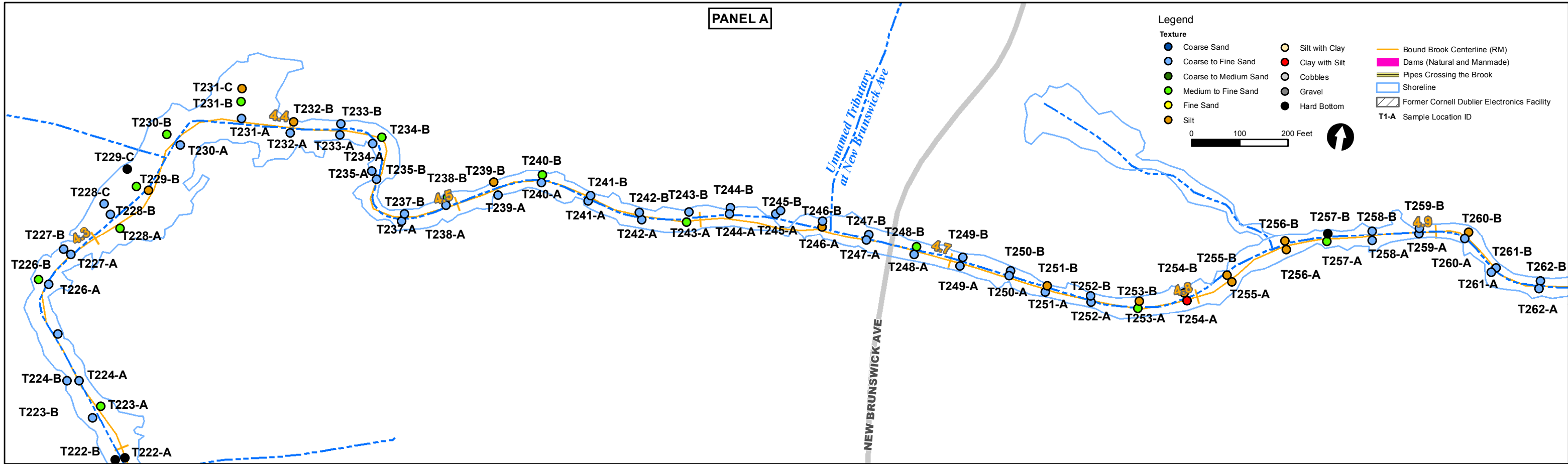
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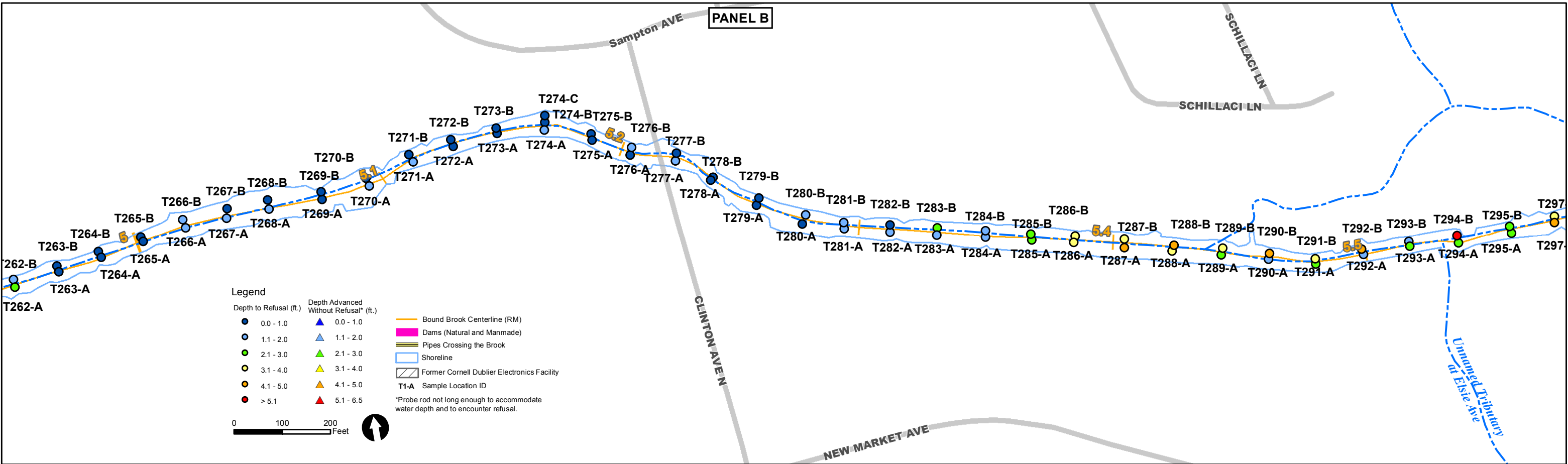
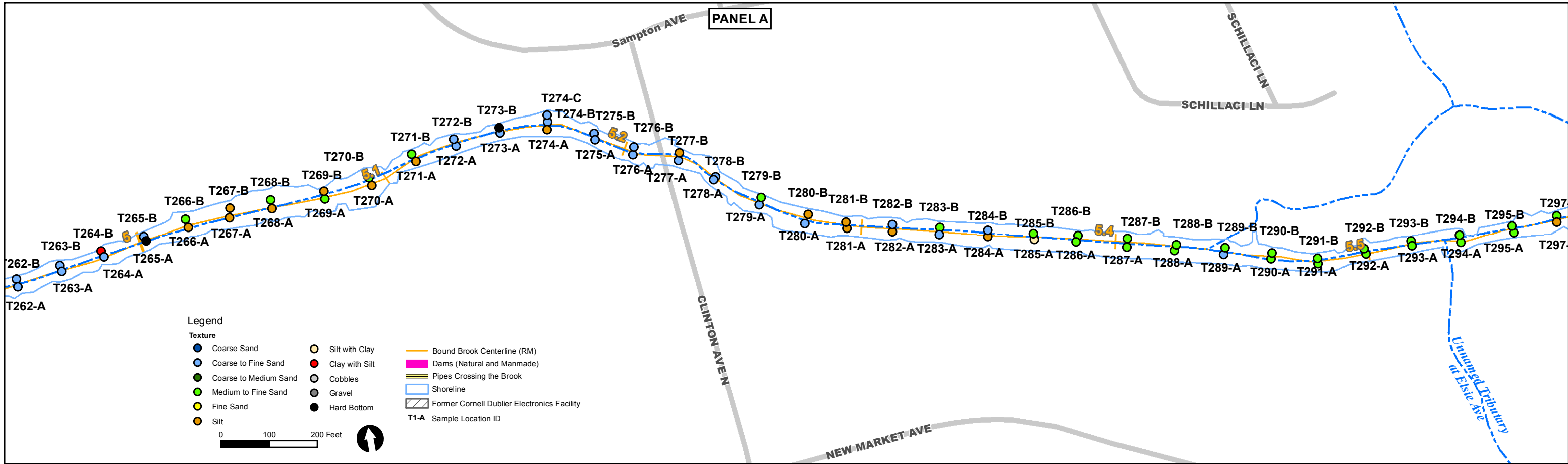
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Sediment Probing Interpretation
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Bound Brook OU4 RI/FS

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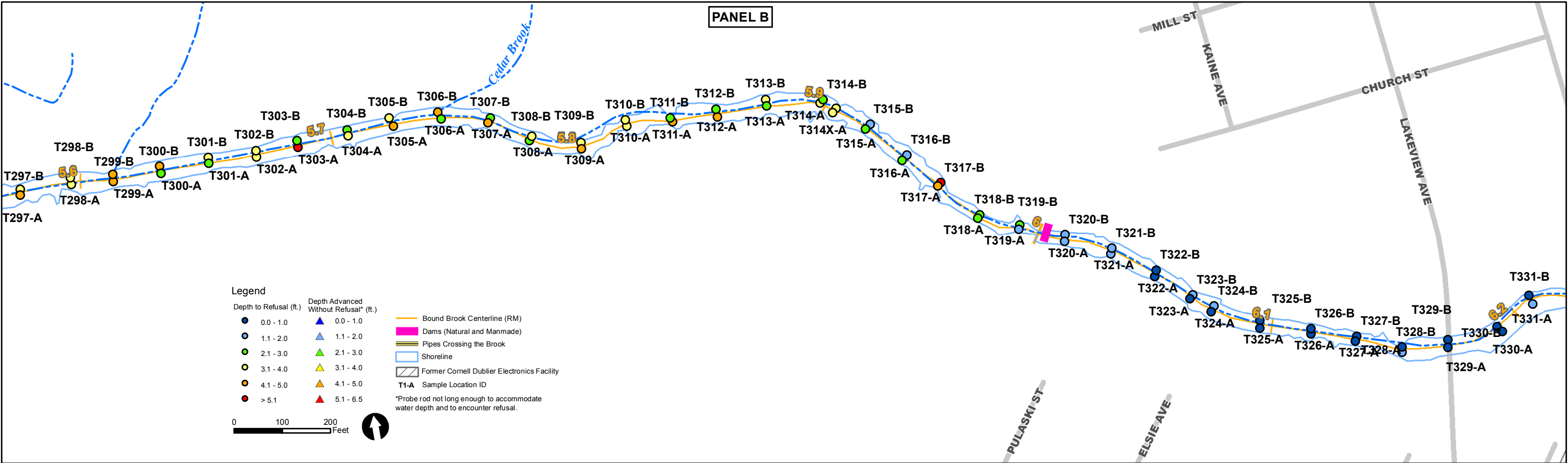
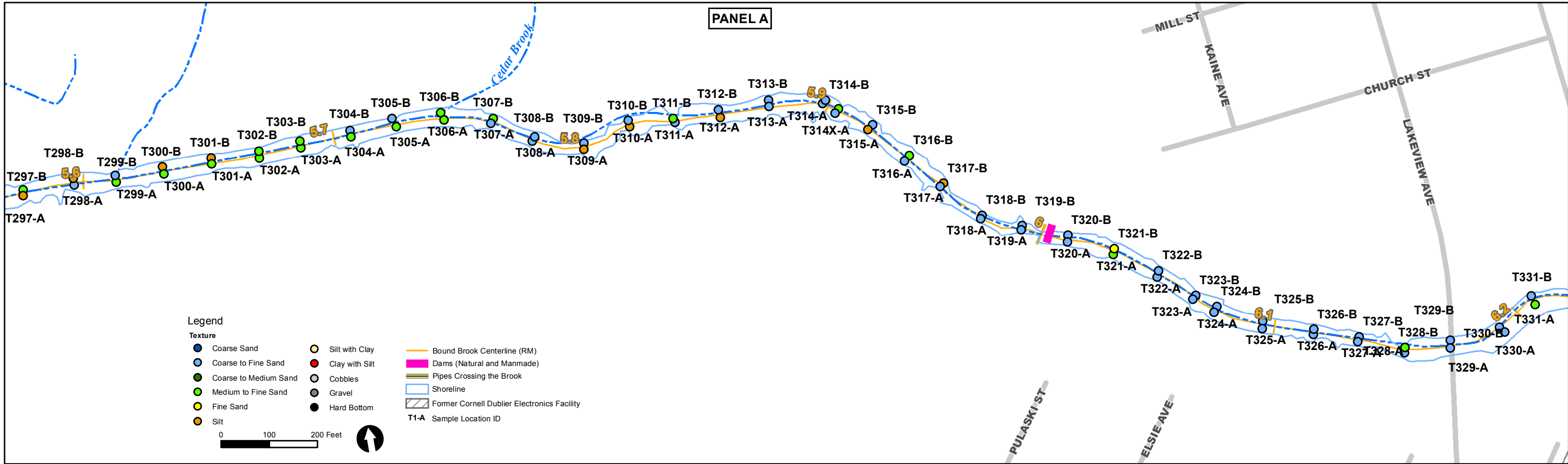
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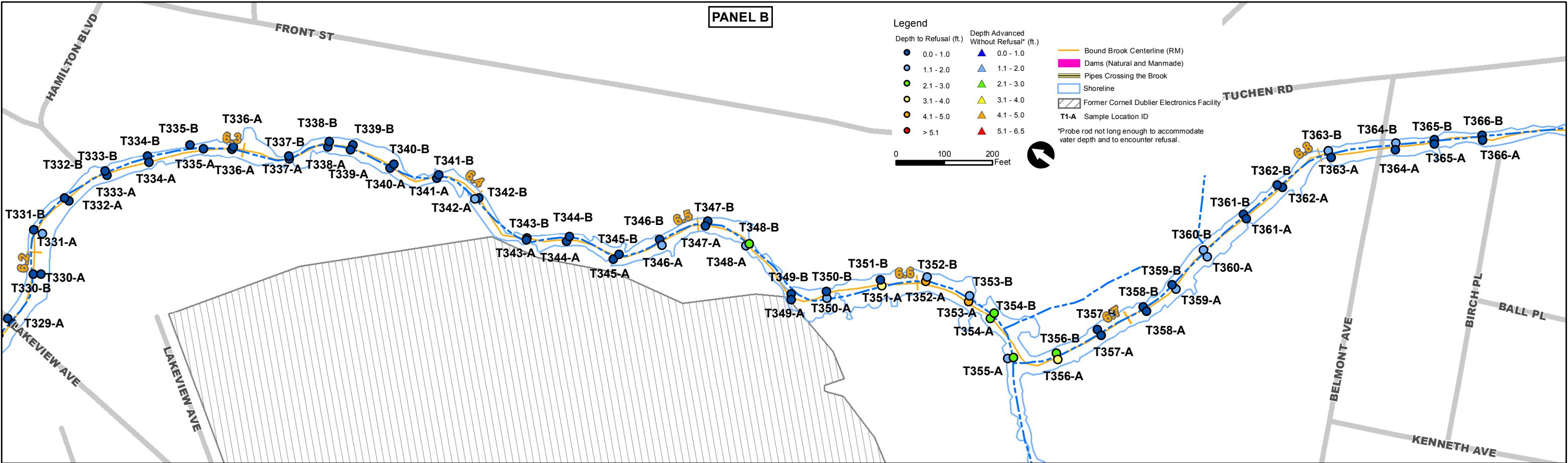
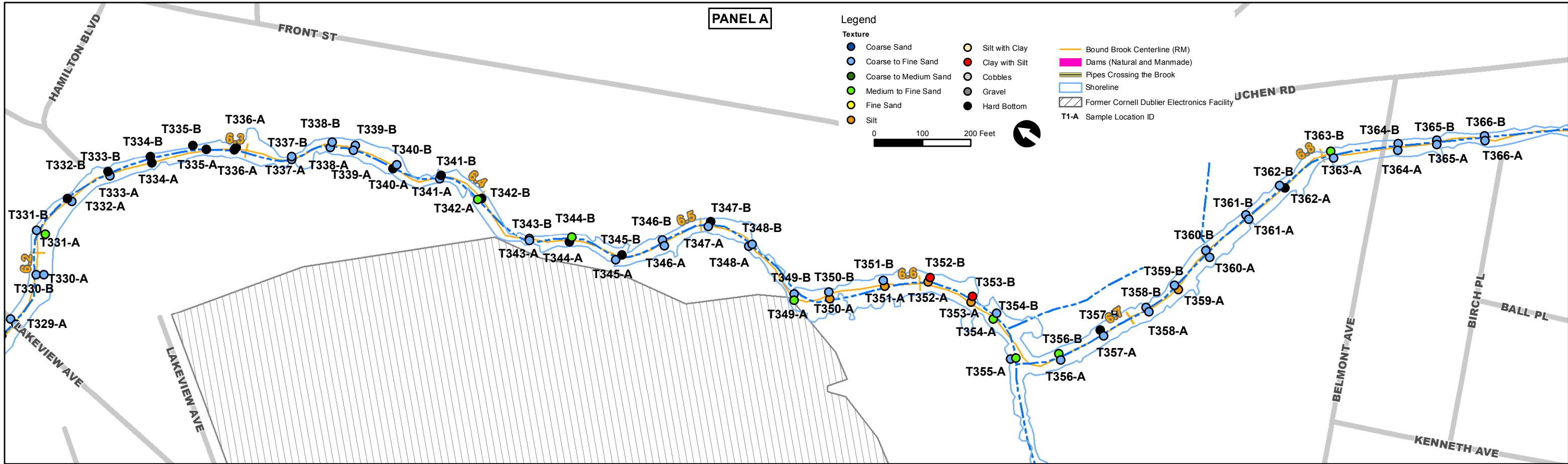
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Sediment Probing Interpretation
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Bound Brook OU4 RI/FS

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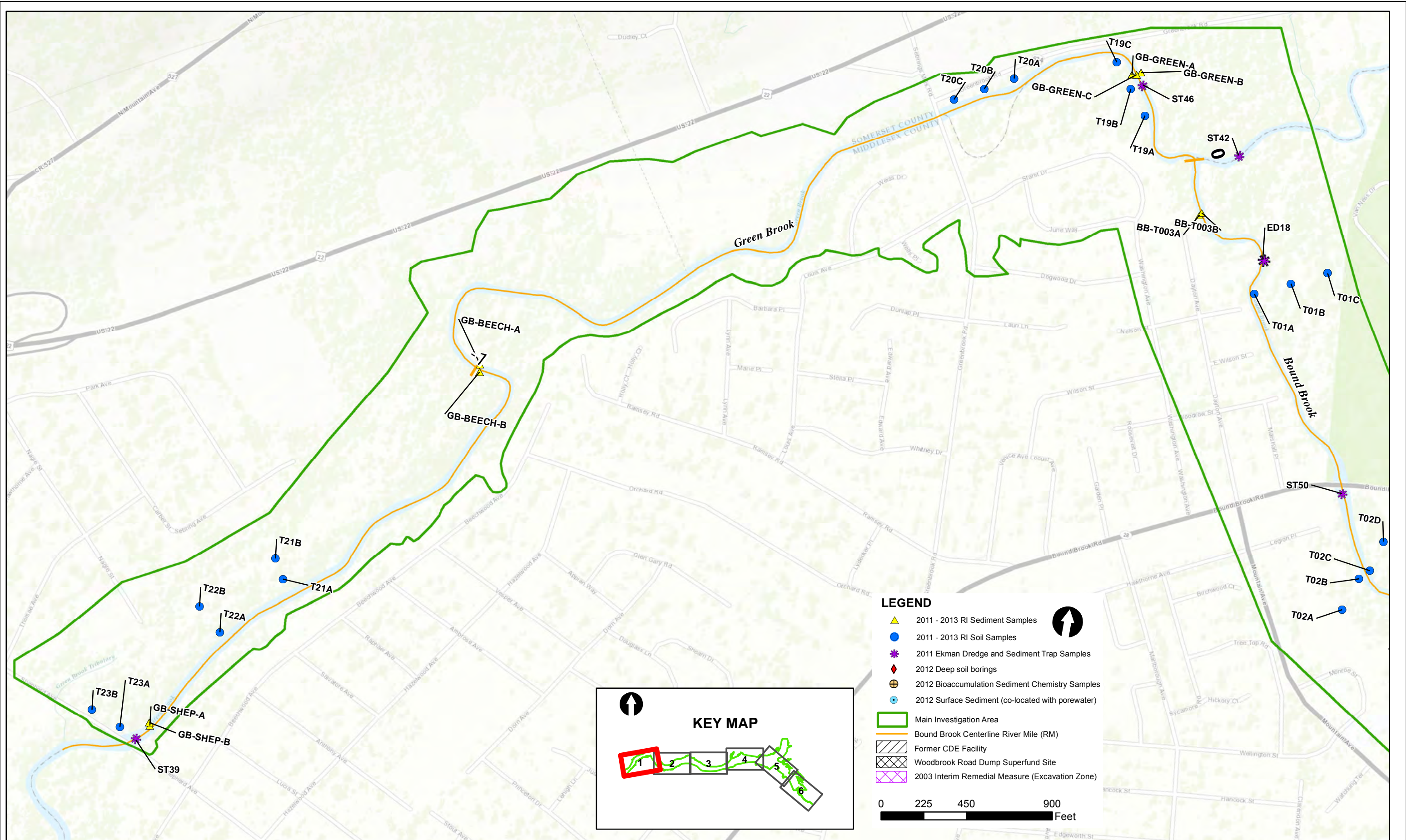
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Superfund Site
South Plainfield, New Jersey

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Sediment Probing Interpretation
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Bound Brook OU4 RI/FS

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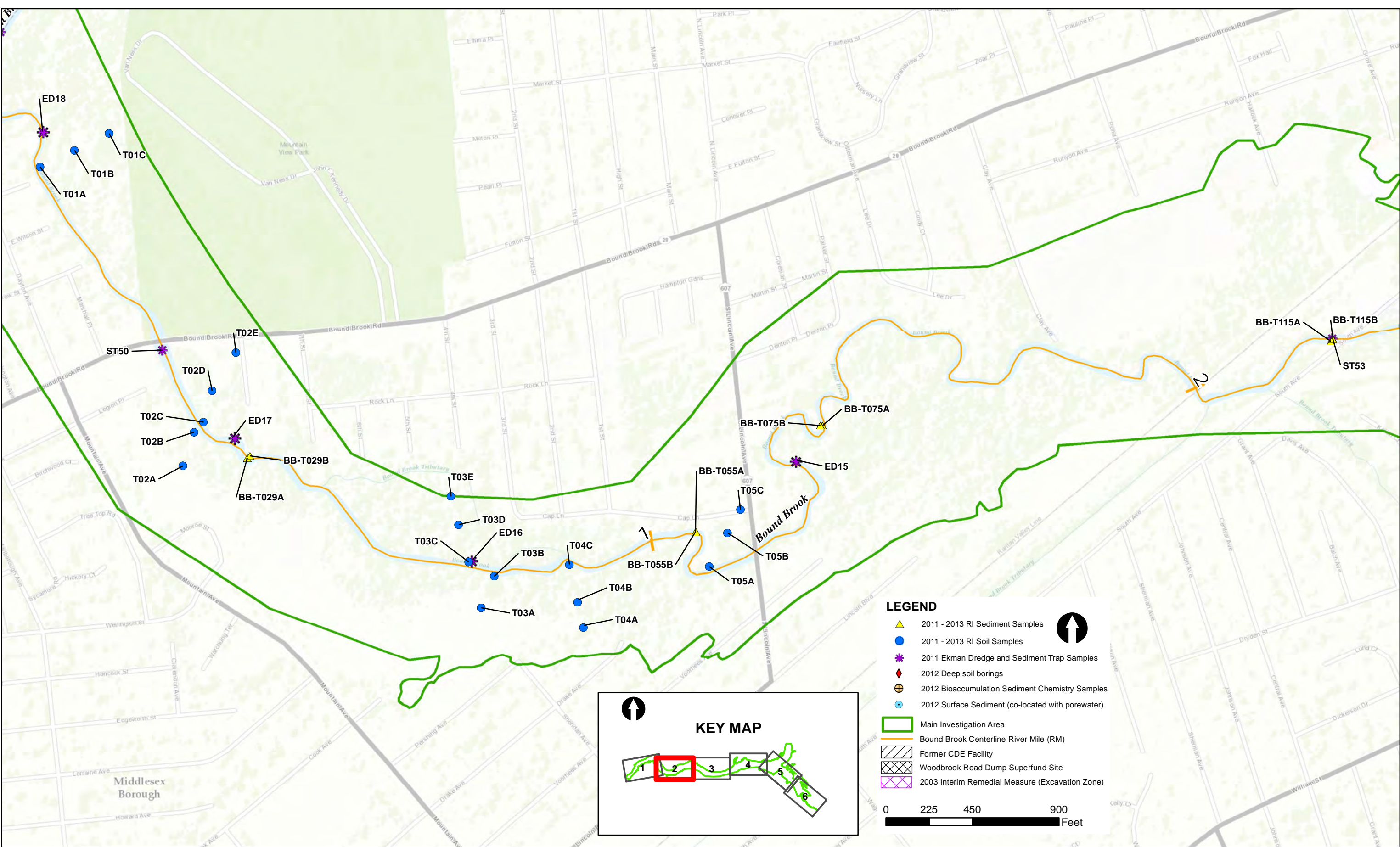


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2011-2013 RI Sediment and Soil Sampling Location Identification
Bound Brook OU4 RI/FS

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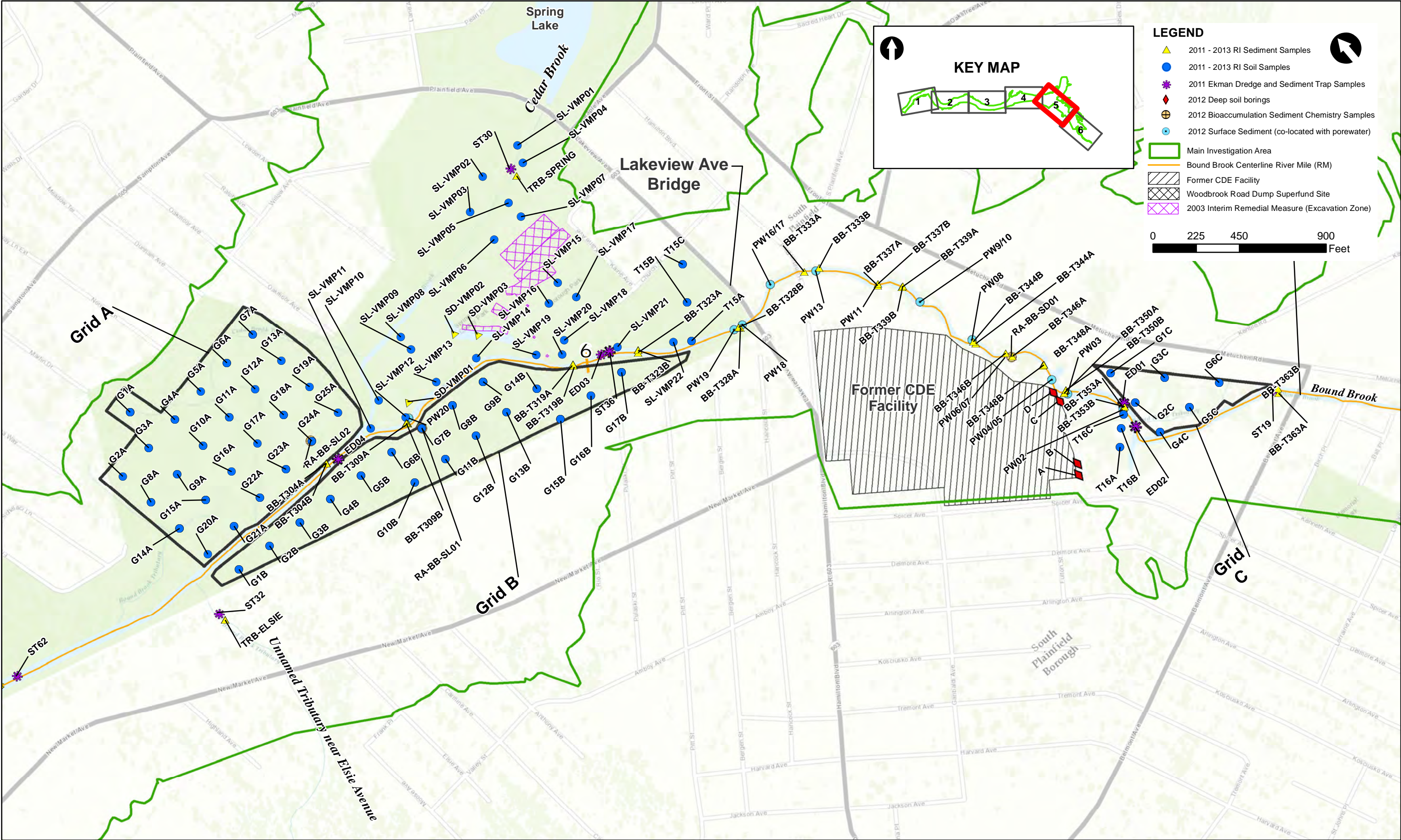


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2011-2013 RI Sediment and Soil Sampling Location Identification
Bound Brook OU4 RI/FS

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Sheet 2 of 6

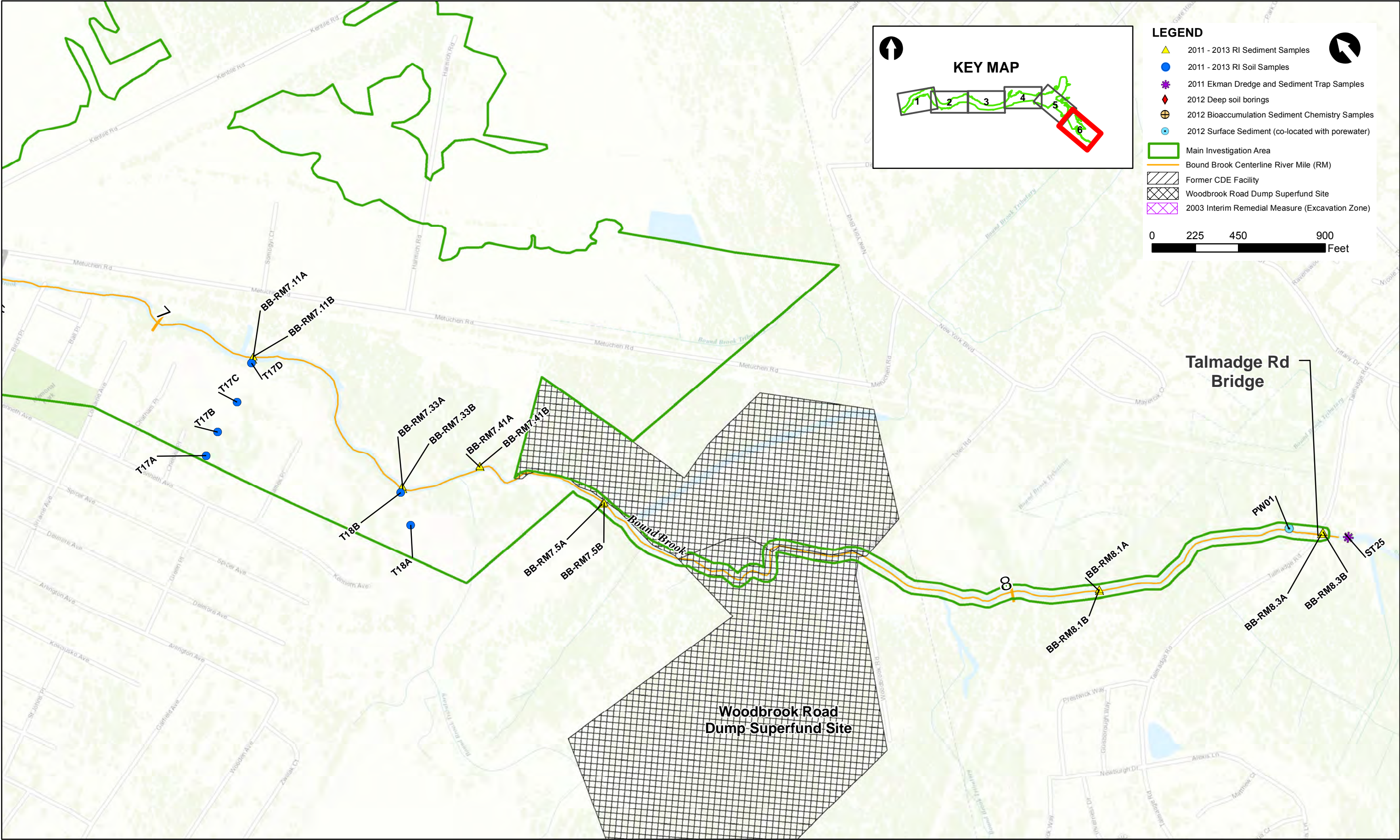


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South Plainfield, New Jersey

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2011-2013 RI Sediment and Soil Sampling Location Identification
Bound Brook OU4 RI/FS

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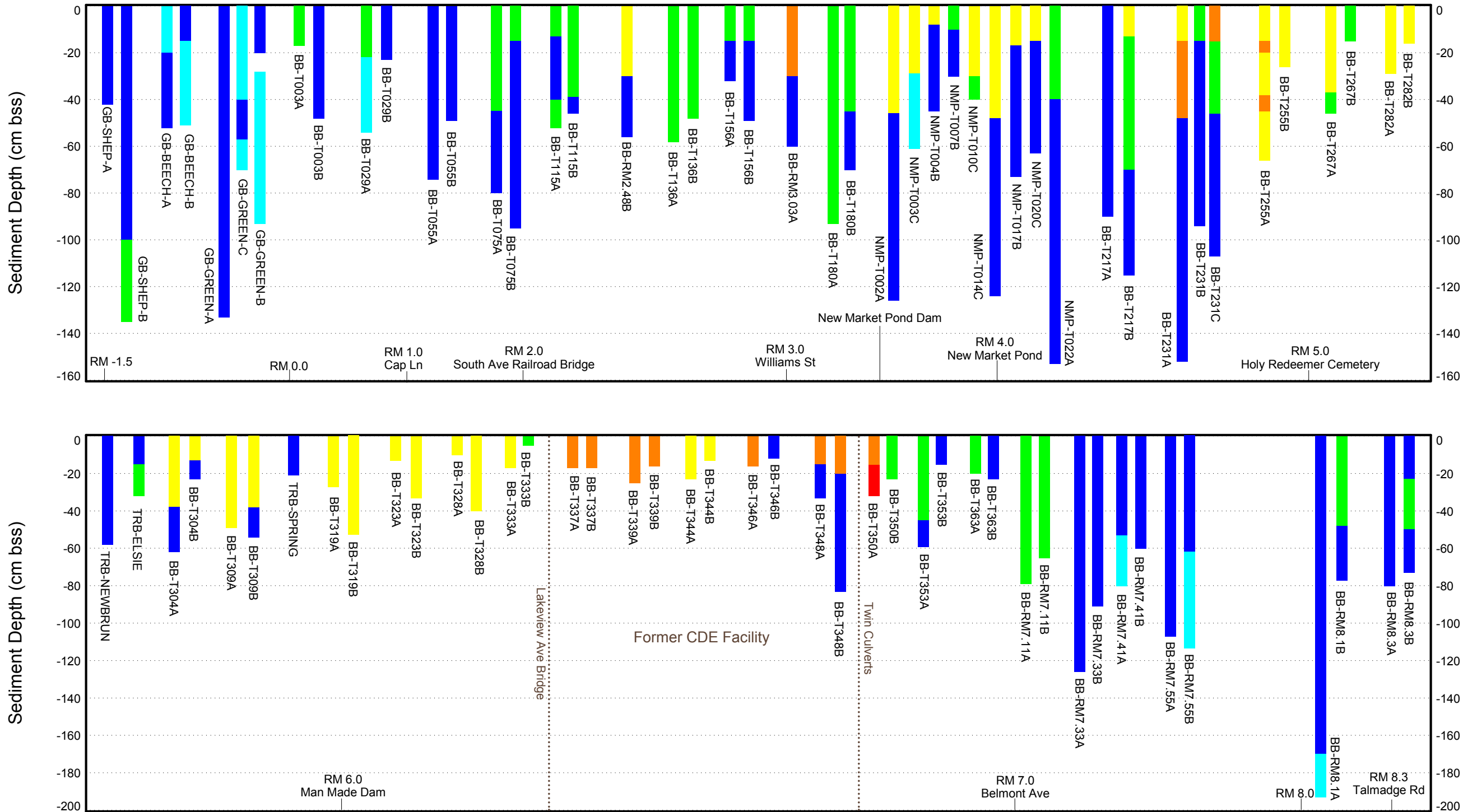


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South Plainfield, New Jersey

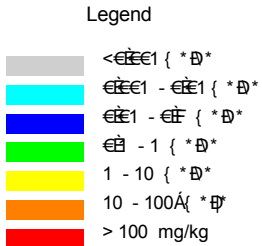
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2011-2013 RI Sediment and Soil Sampling Location Identification
Bound Brook OU4 RI/FS

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Figure 3-3
Sheet 6 of 6



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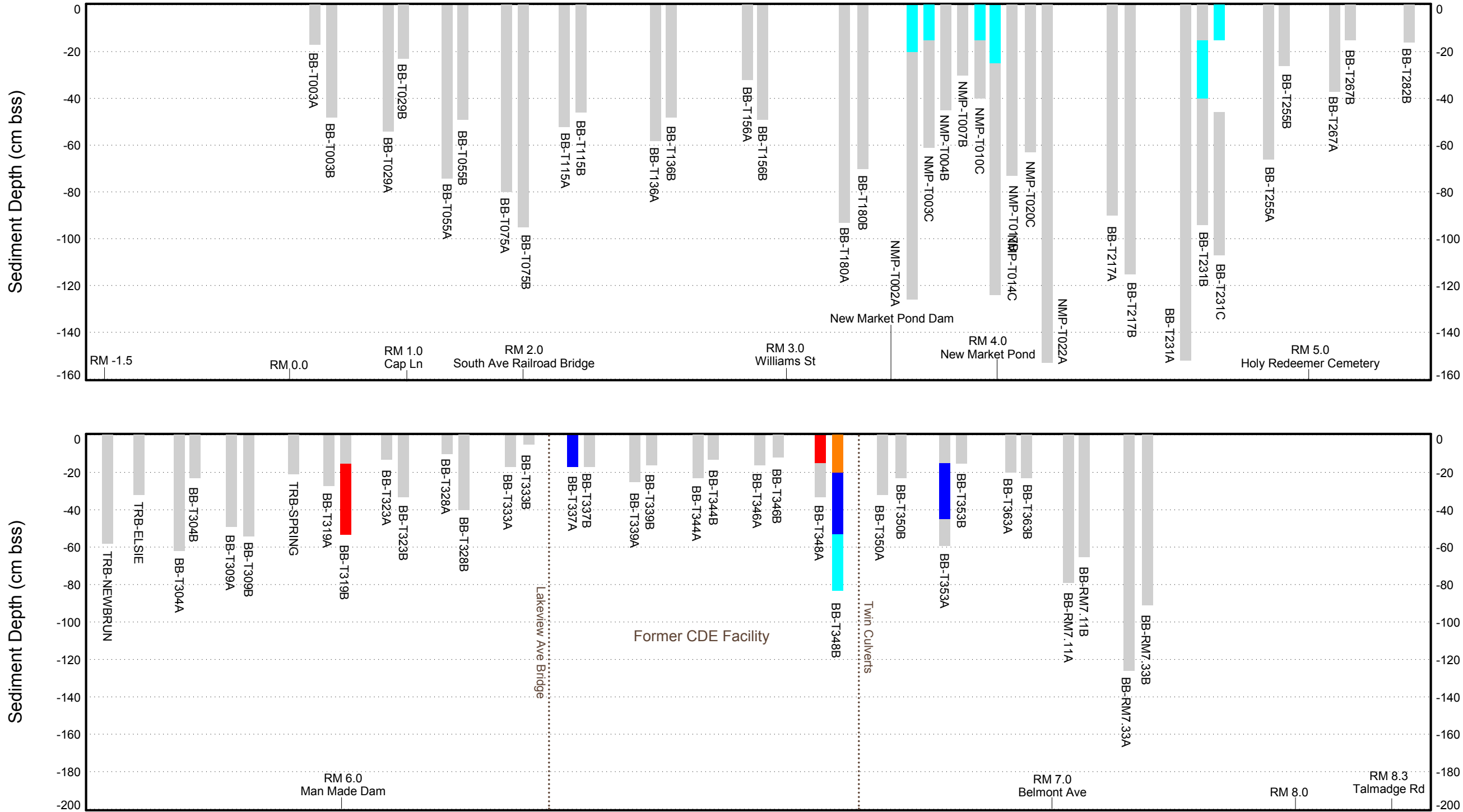
Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ
Low Resolution Sediment Core Profiles
Bound Brook OU4 RI/FS

**CONCENTRATION-DEPTH PROFILE:
Aroclor-1254**

2014

Figure
3-4a

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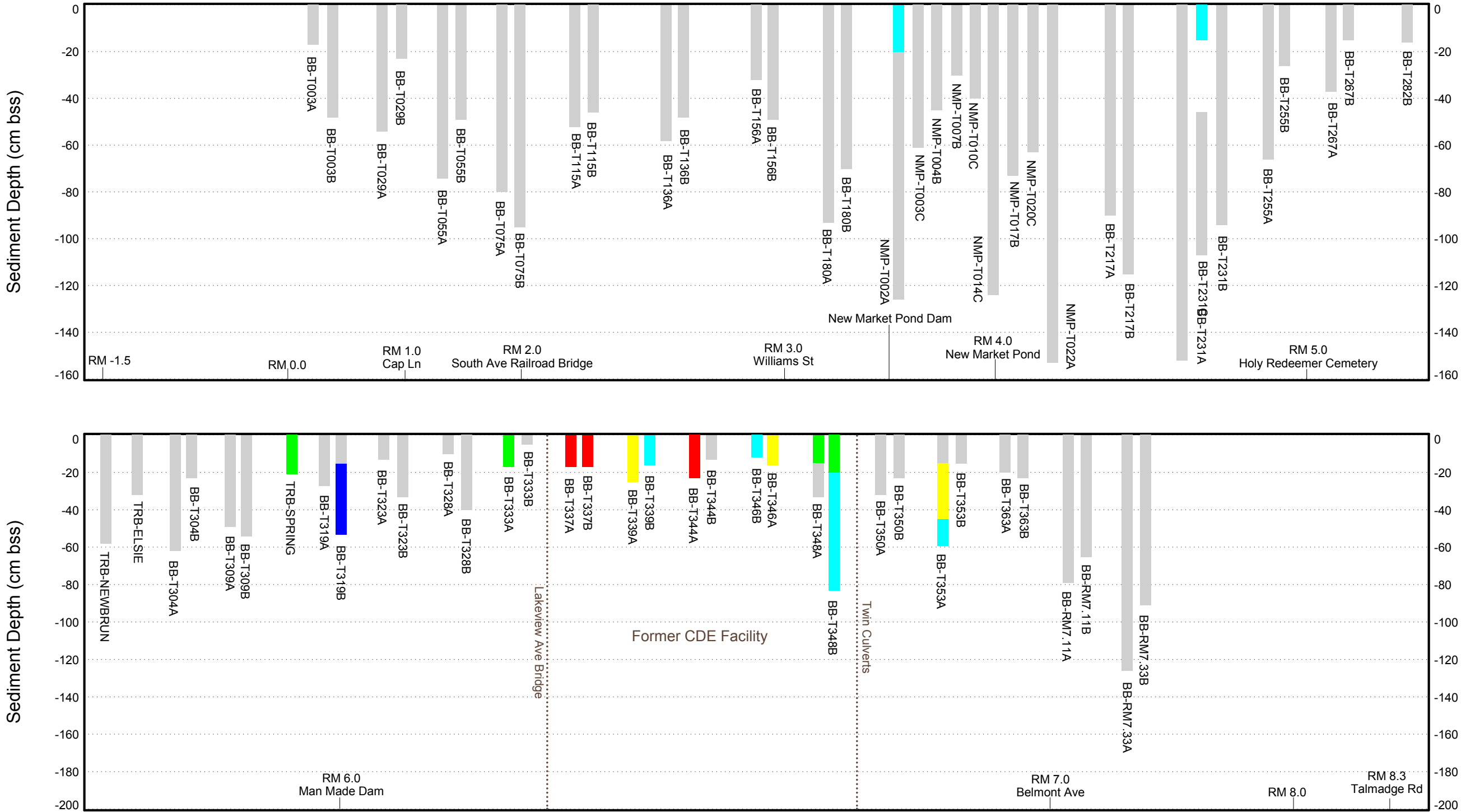


Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ
Low Resolution Sediment Core Profiles
Bound Brook OU4 RI/FS

CONCENTRATION-DEPTH PROFILE:
Trichloroethene

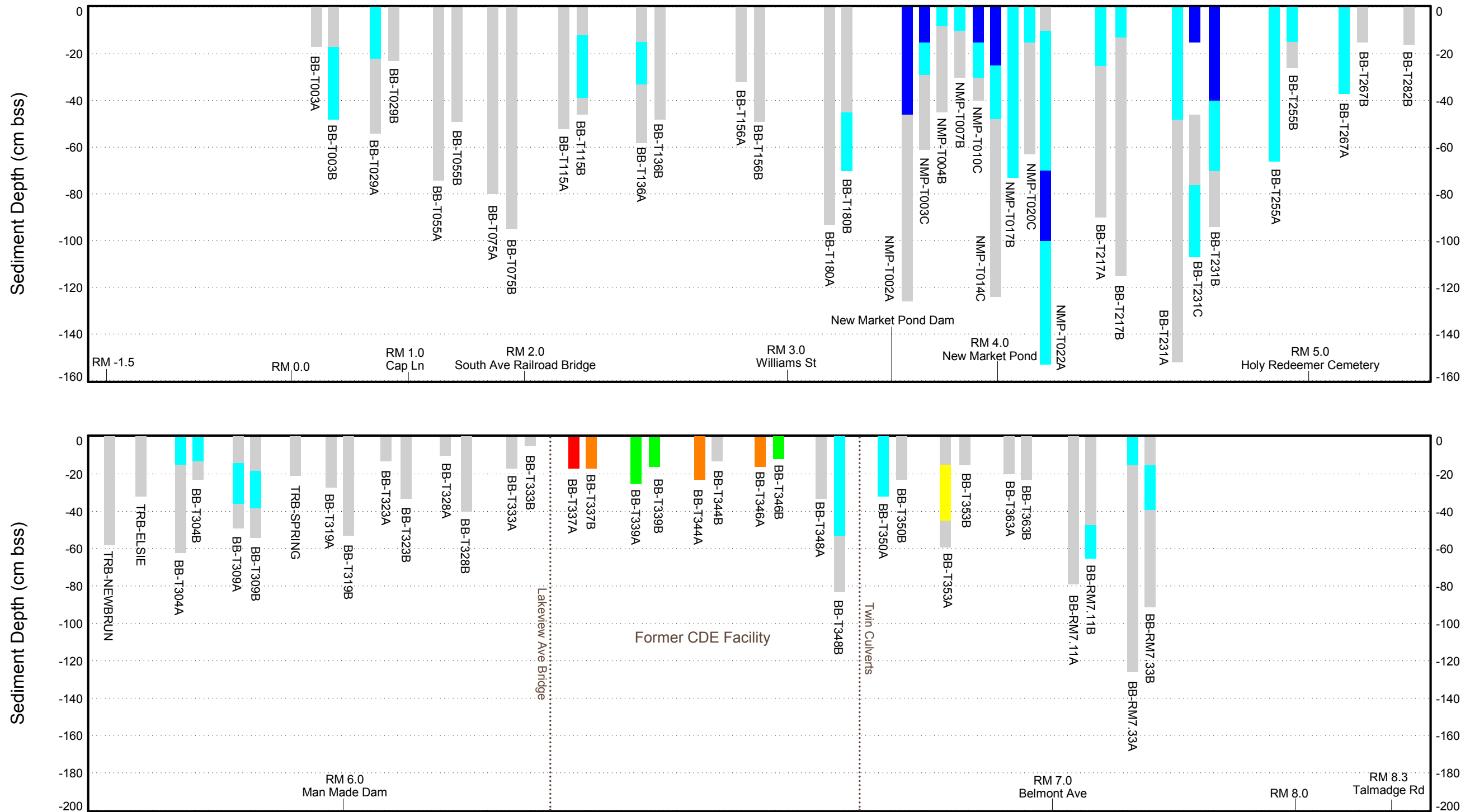
2014

Figure
3-4b



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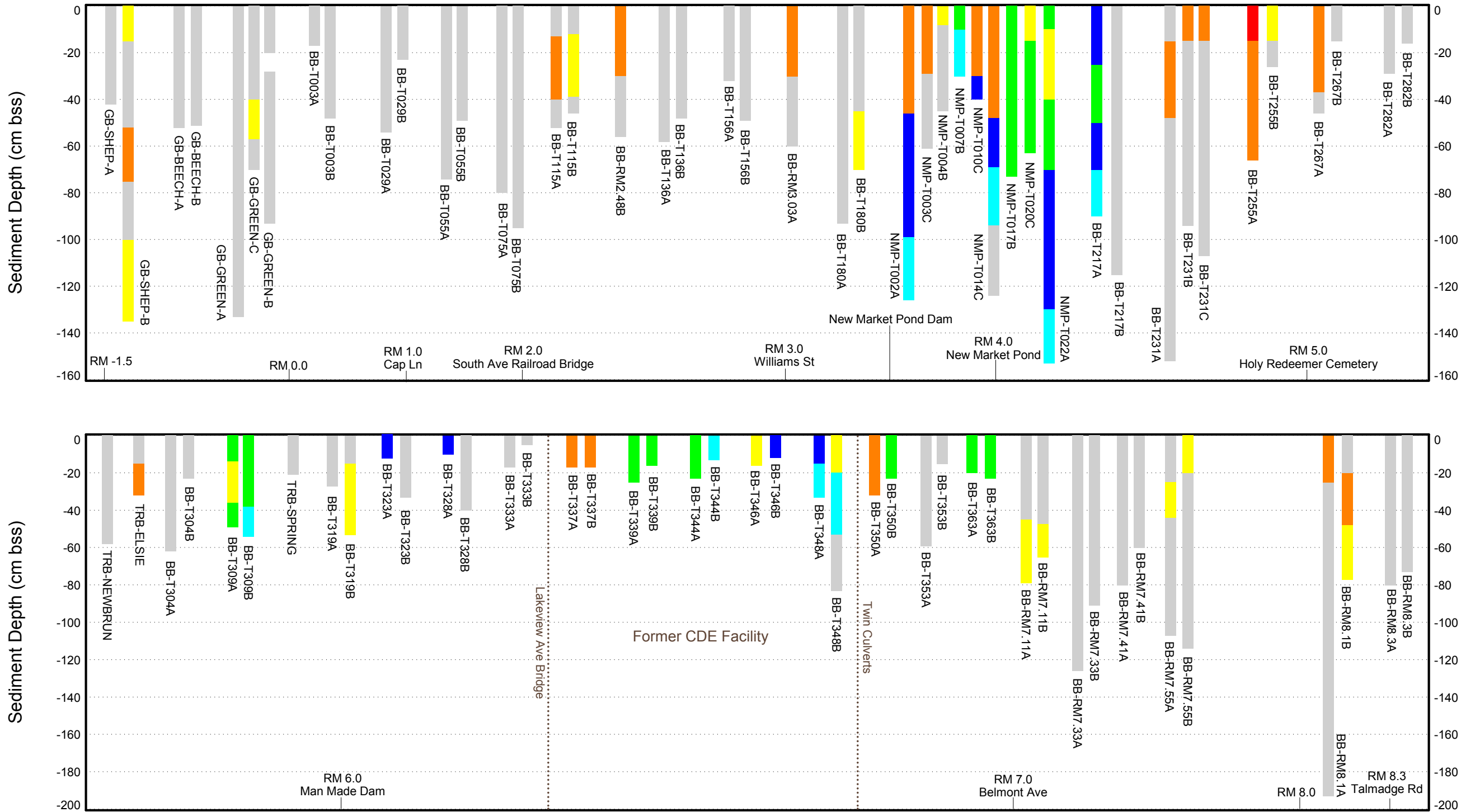
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Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ
Low Resolution Sediment Core Profiles
Bound Brook OU4 RI/FS

CONCENTRATION-DEPTH PROFILE: Vinyl Chloride

2014

Figure
3-4d

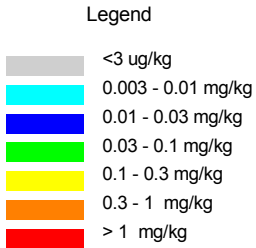


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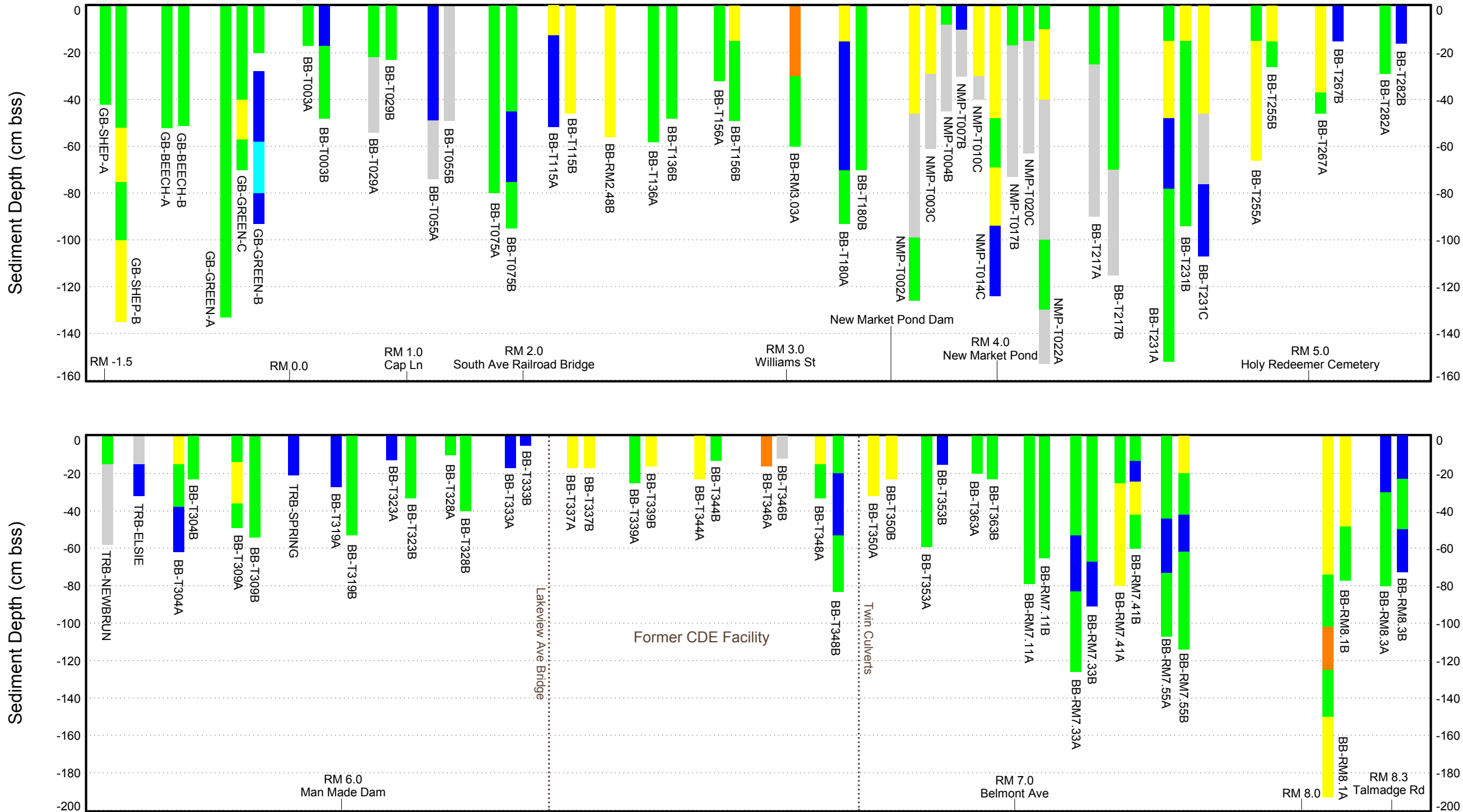


Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ
Low Resolution Sediment Core Profiles
Bound Brook OU4 RI/FS

CONCENTRATION-DEPTH PROFILE:
Mercury

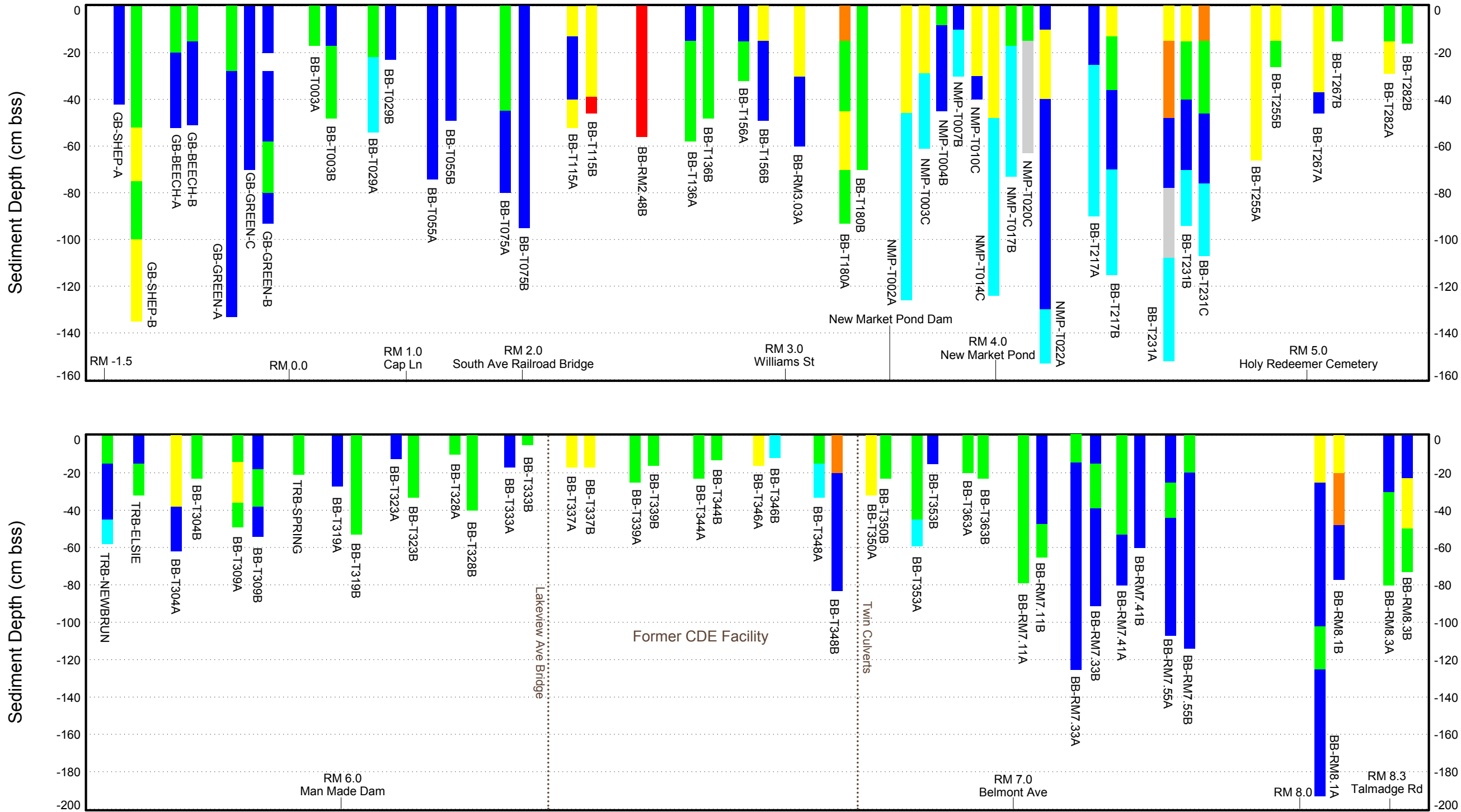
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Figure
3-4e

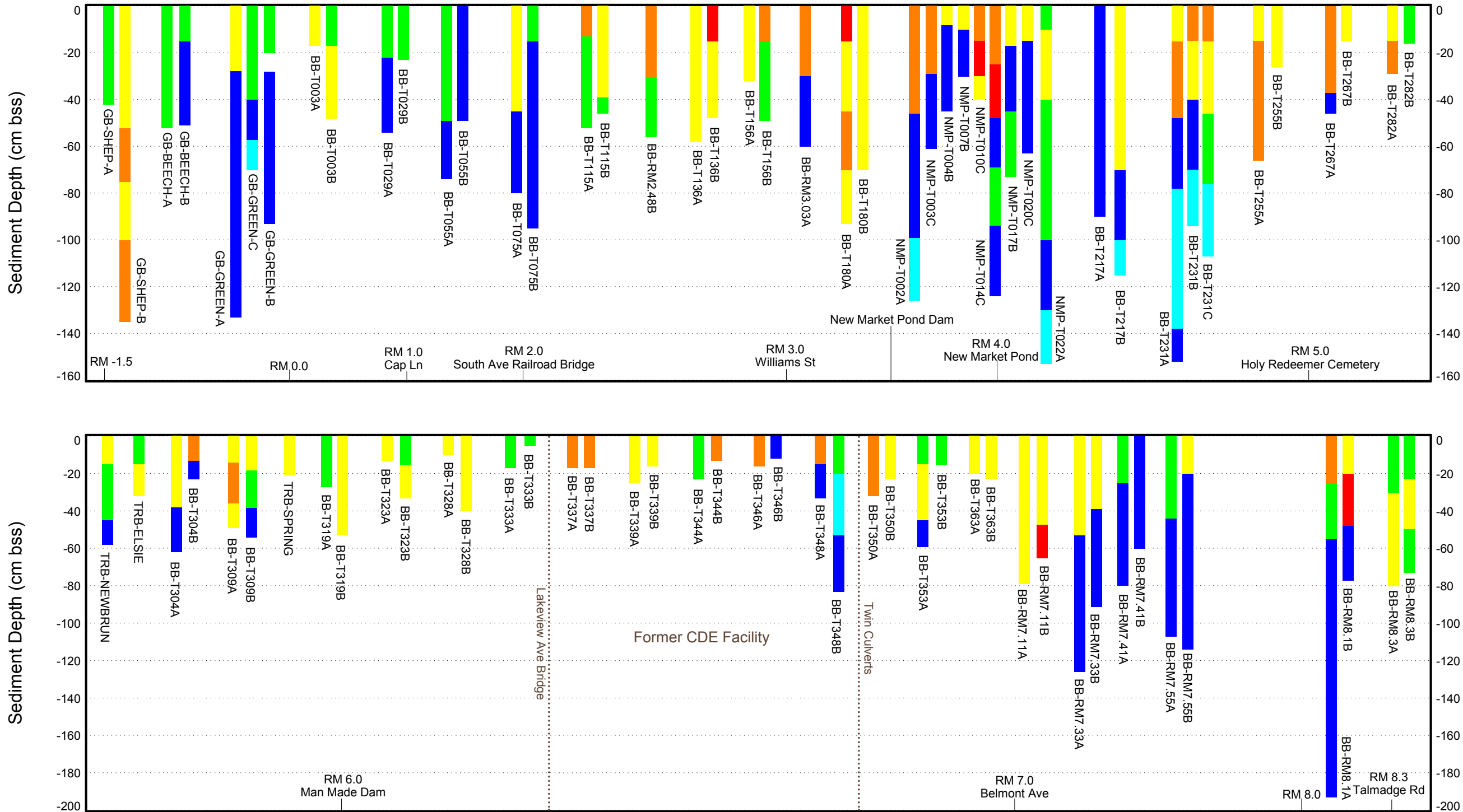


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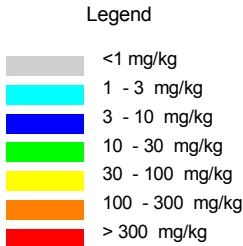


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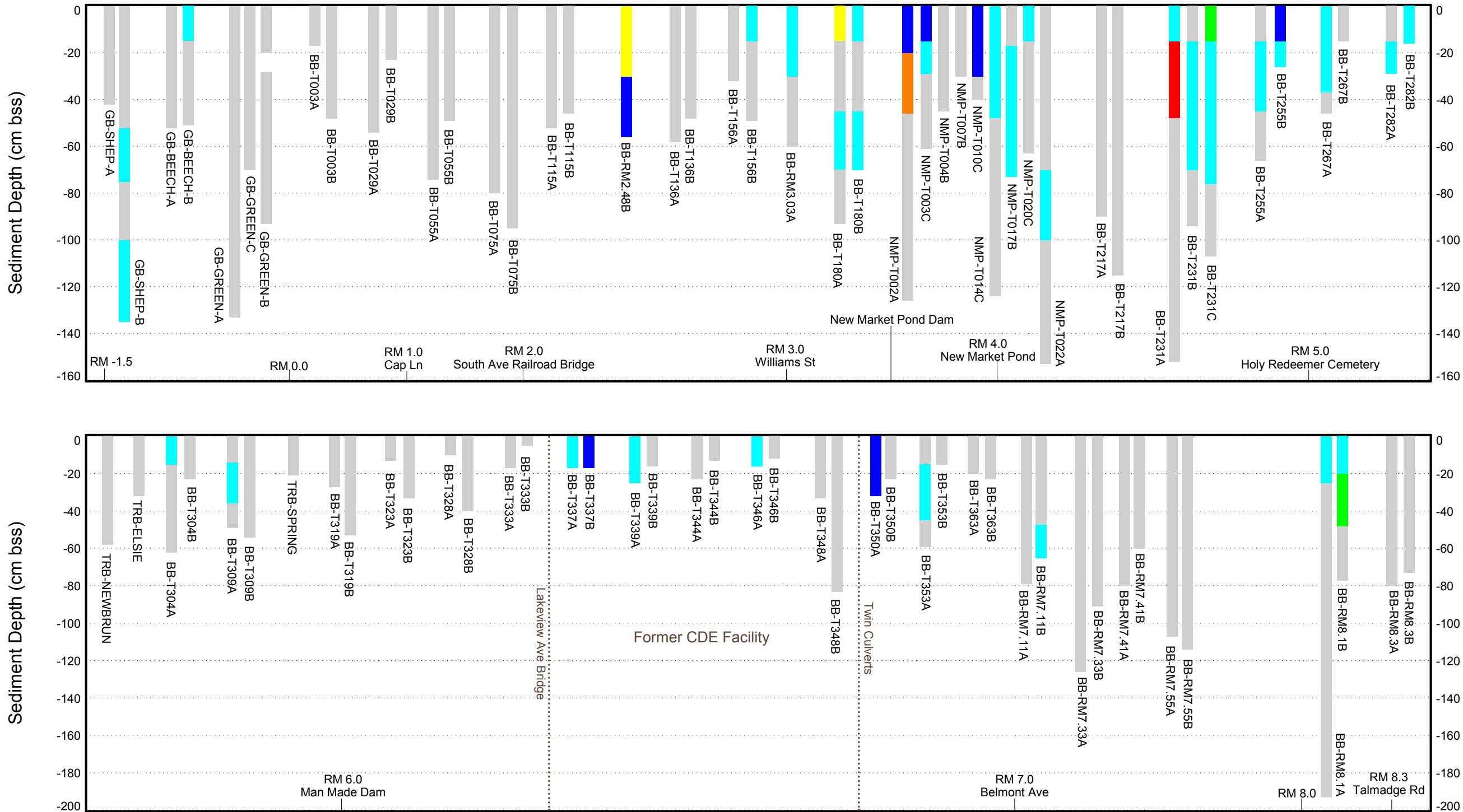


Cornell-Dubilier Electronics Superfund Site
South Plainfield, NJ
Low Resolution Sediment Core Profiles
Bound Brook OU4 RI/FS

CONCENTRATION-DEPTH PROFILE:
Lead

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Figure
3-4h



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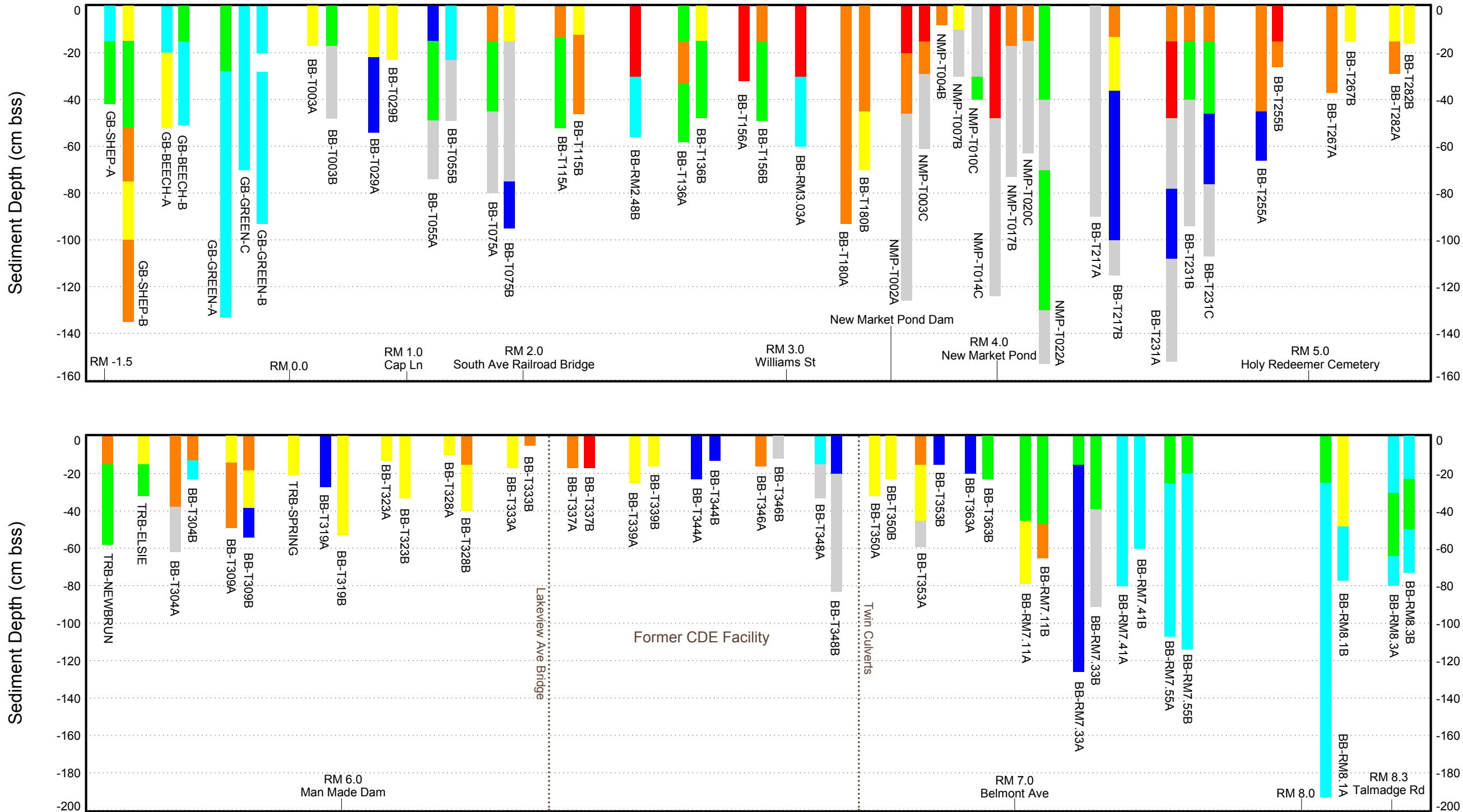
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Cornell-Dubilier Electronics Superfund Site
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Low Resolution Sediment Core Profiles
Bound Brook OU4 RI/FS

CONCENTRATION-DEPTH PROFILE:
Chromium

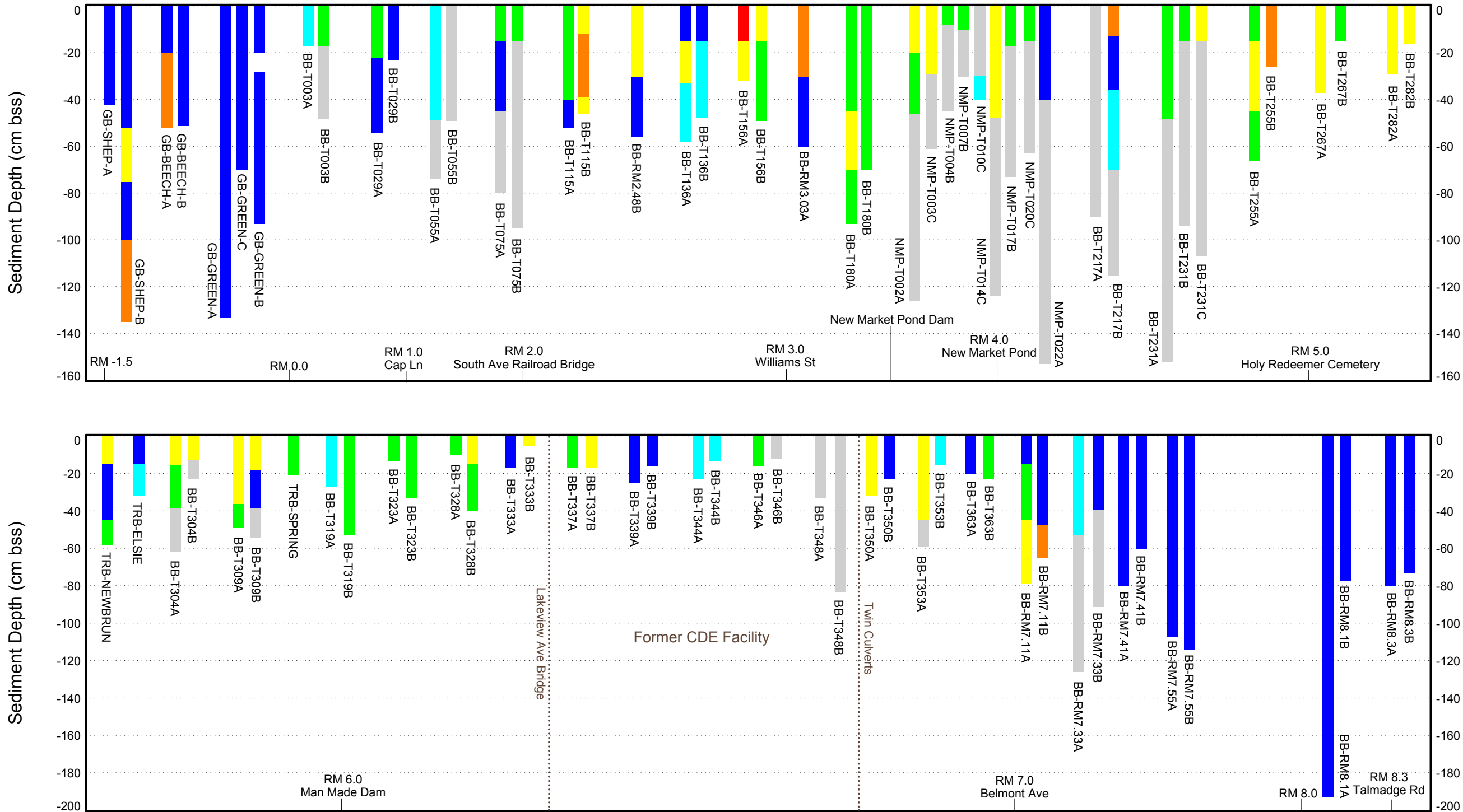
2014

Figure
3-4i



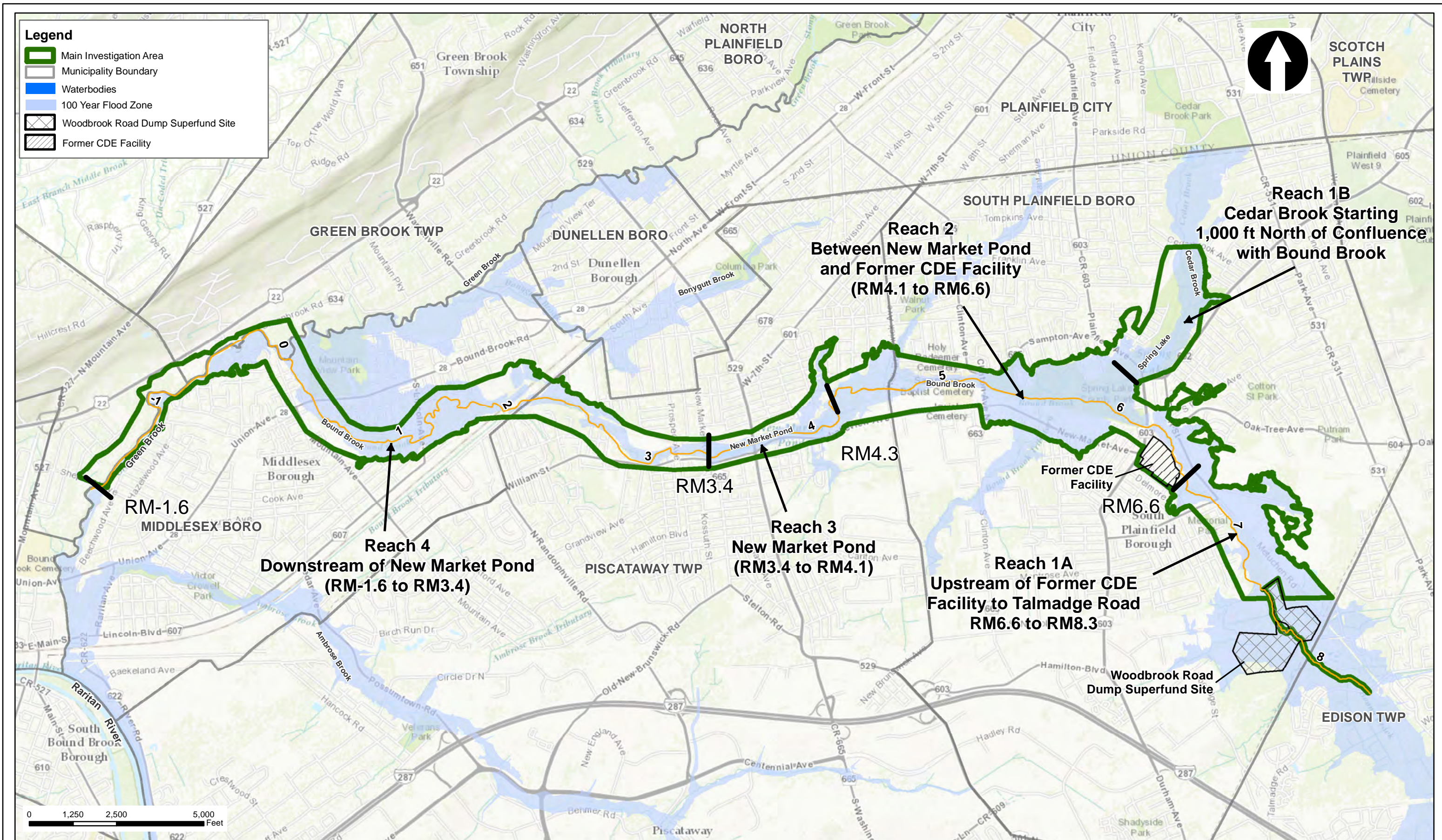
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3. Cores labeled with an A are located at the South Bank. Cores labeled with a B are located at the North Bank.
4. Duplicate samples have been omitted from the presentation.
5. For transect BB-T231, A-core is located on the right bank looking upstream, B-core in the middle of the channel, and the C-core on the left bank looking upstream. For transect GB-GREEN, the A-core and B-core were initially collected equally spaced across the brook. The C-core was subsequently collected from the middle of the channel to further characterize the transect. In New Market Pond, sediment cores were co-located with the 2010 sediment probing points. Core designations correspond to the sediment probing sample identification letter, where the A-probing location was on the right bank looking upstream, the B-probing location was in the middle of the pond, and the C-probing location was on the left bank looking upstream.



Notes:

1. Non-detected concentrations are incorporated into the presentation as equal to their method detection limit.
2. Rejected concentrations are omitted in the presentation and will be projected as a break in the depth profile.
3. Cores labeled with an A are located at the South Bank. Cores labeled with a B are located at the North Bank.
4. Duplicate samples have been omitted from the presentation.
5. For transect BB-T231, A-core is located on the right bank looking upstream, B-core in the middle of the channel, and the C-core on the left bank looking upstream. For transect GB-GREEN, the A-core and B-core were initially collected equally spaced across the brook. The C-core was subsequently collected from the middle of the channel to further characterize the transect. In New Market Pond, sediment cores were co-located with the 2010 sediment probing points. Core designations correspond to the sediment probing sample identification letter, where the A-probing location was on the right bank looking upstream, the B-probing location was in the middle of the pond, and the C-probing location was on the left bank looking upstream.



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Brook Reaches for Sediment and Floodplain Soil Management
Bound Brook OU4 RI/FS

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Figure 3-5



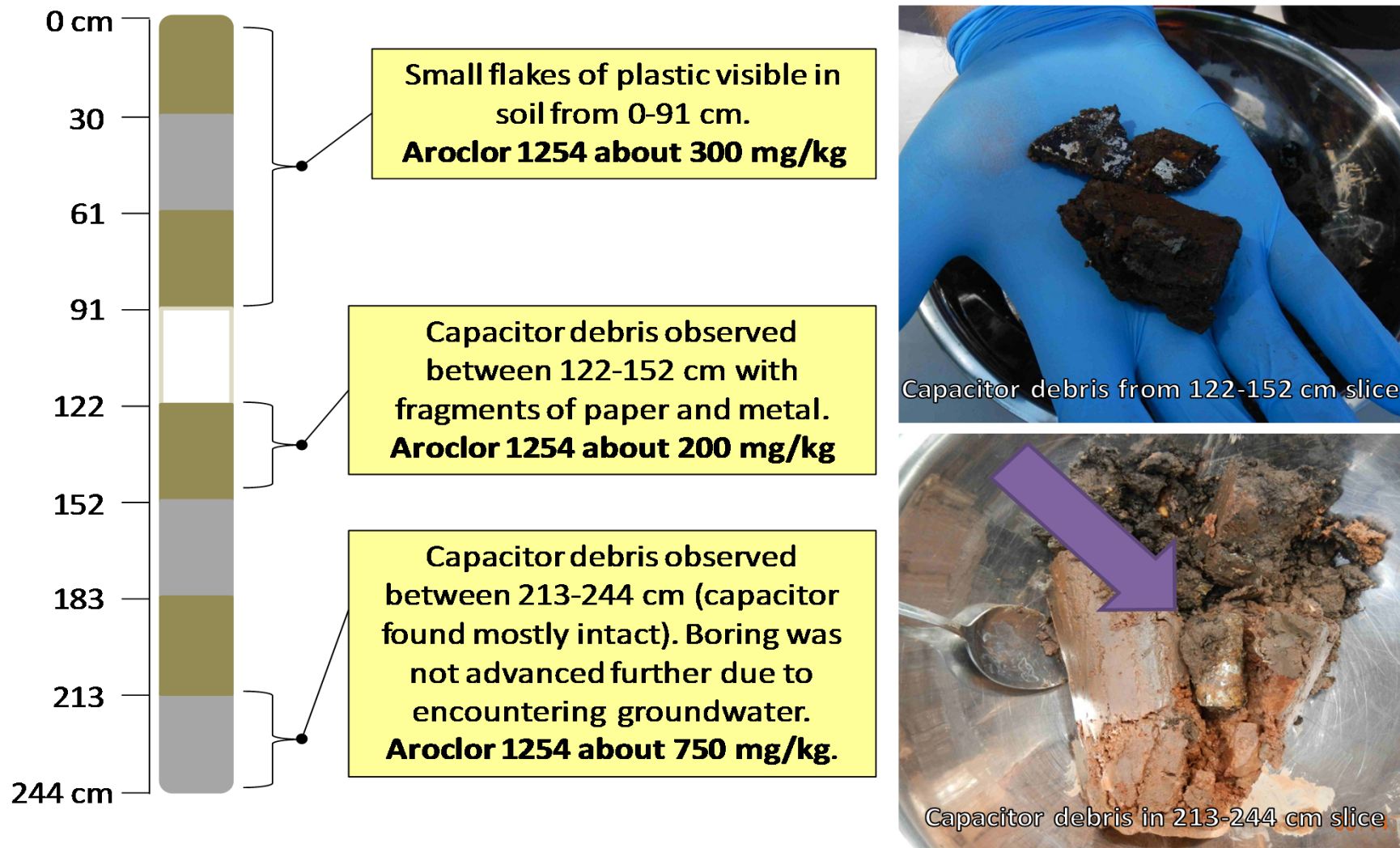
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CD RAA Sampling Results
 Bound Brook OU4 RI/FS

2014

Figure 3-6



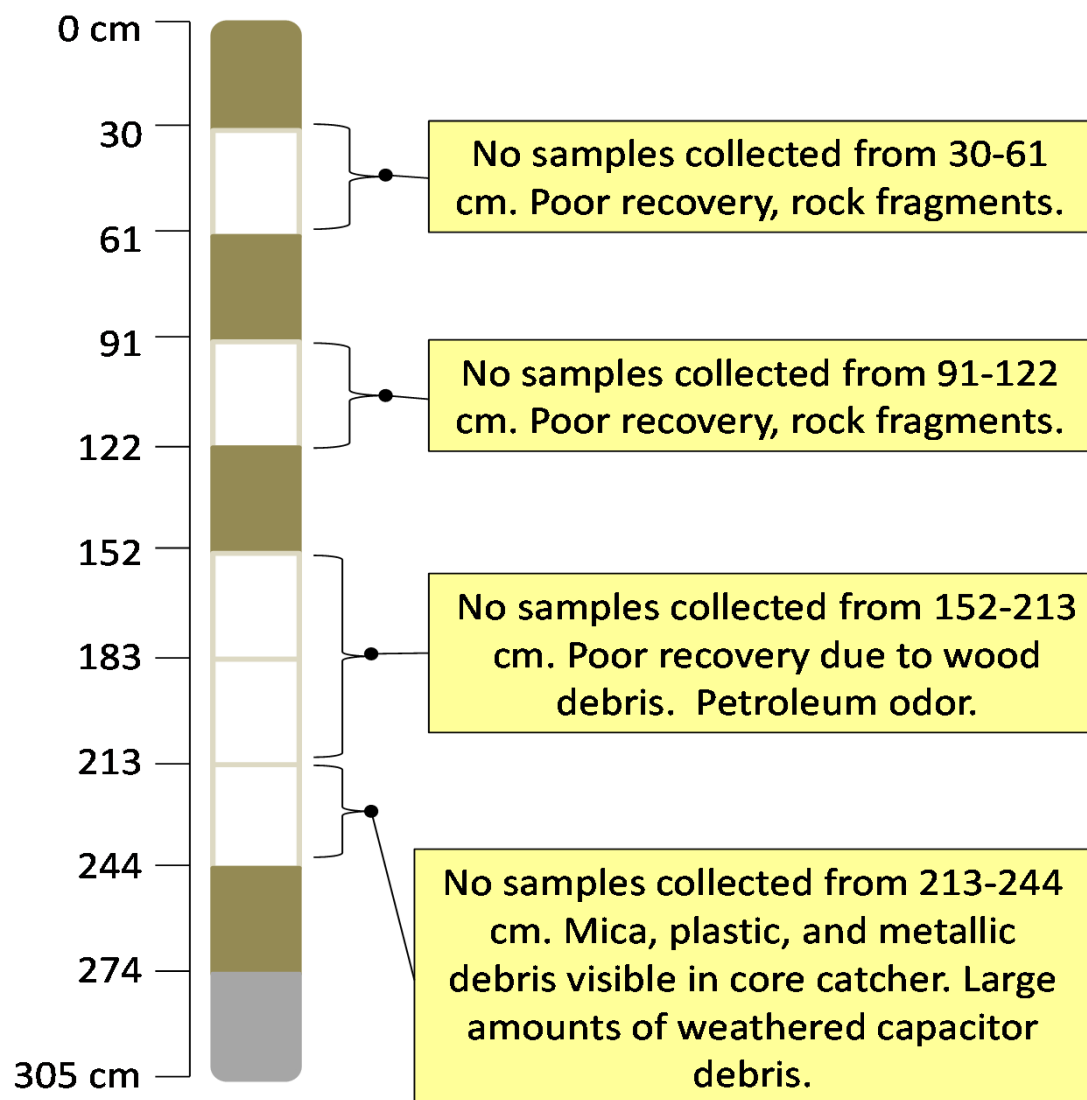
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Schematic of Deep Soil Boring "C" Collected via
Split Spoon
Bound Brook OU4 RI/FS

2014

Figure 3-7

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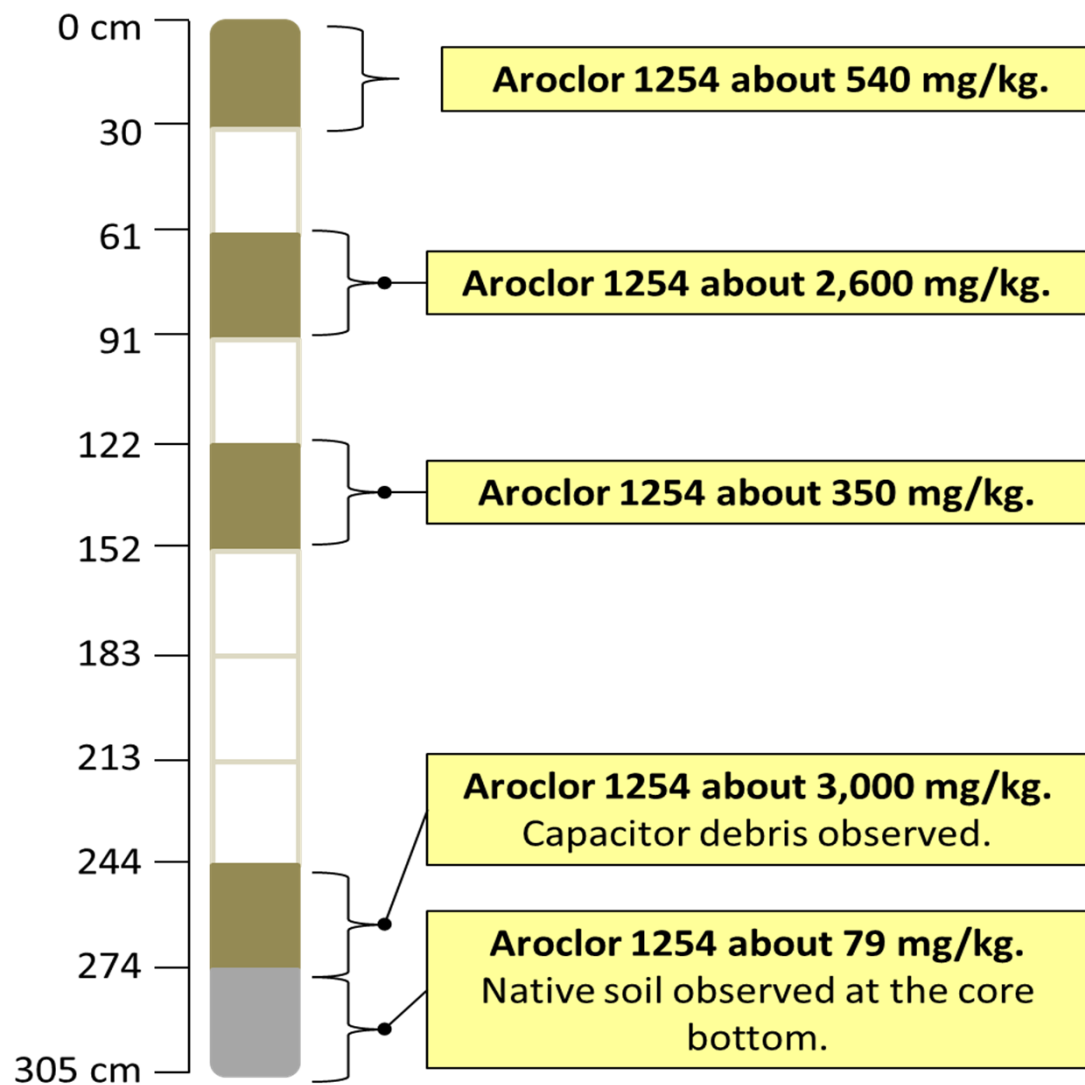


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Schematic of Deep Soil Boring "D" Collected via
Split Spoon
Bound Brook OU4 RI/FS

2014

Figure 3-8a



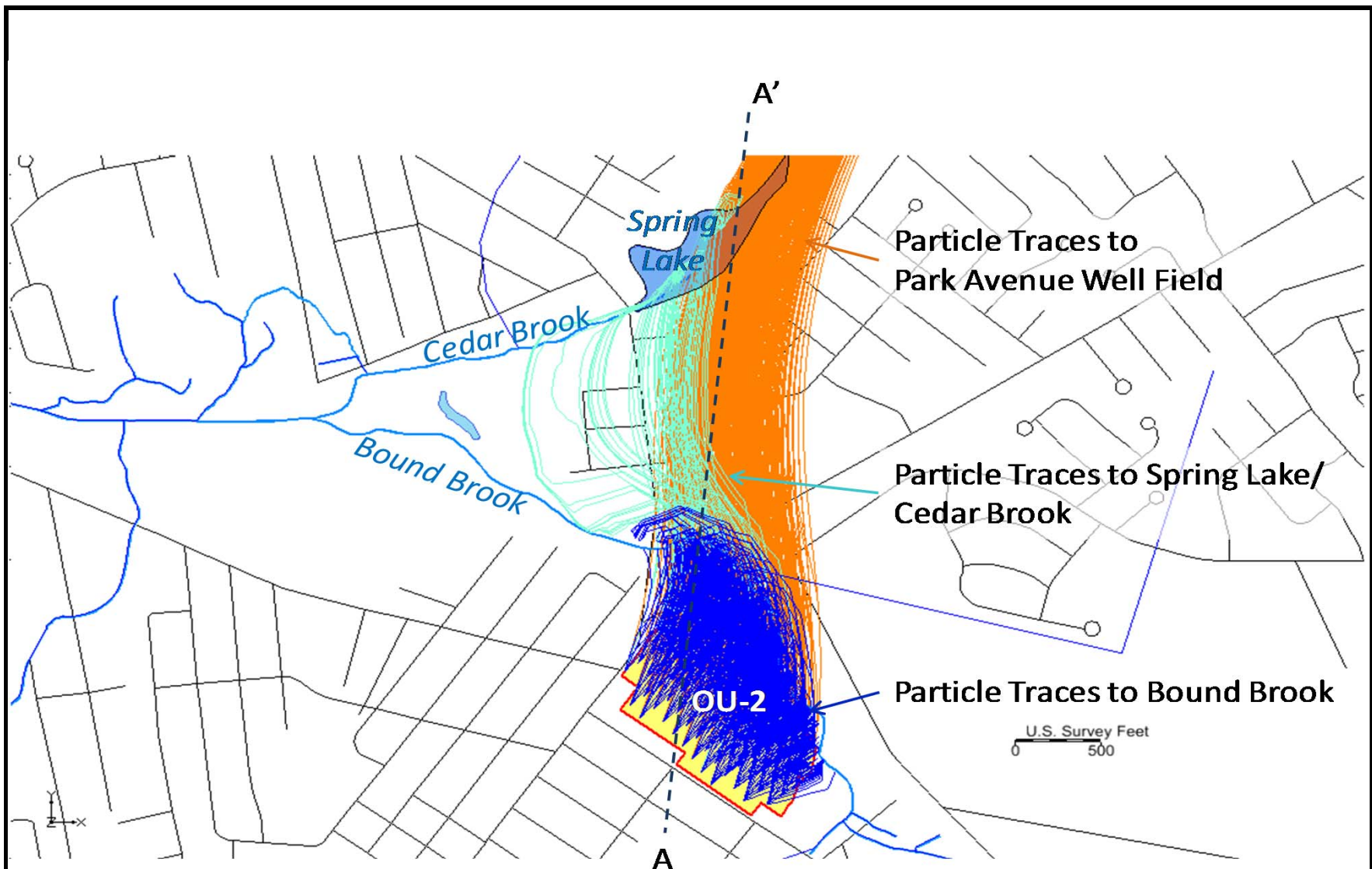
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Schematic of Deep Soil Boring "D" Collected via
Split Spoon
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Figure 3-8b

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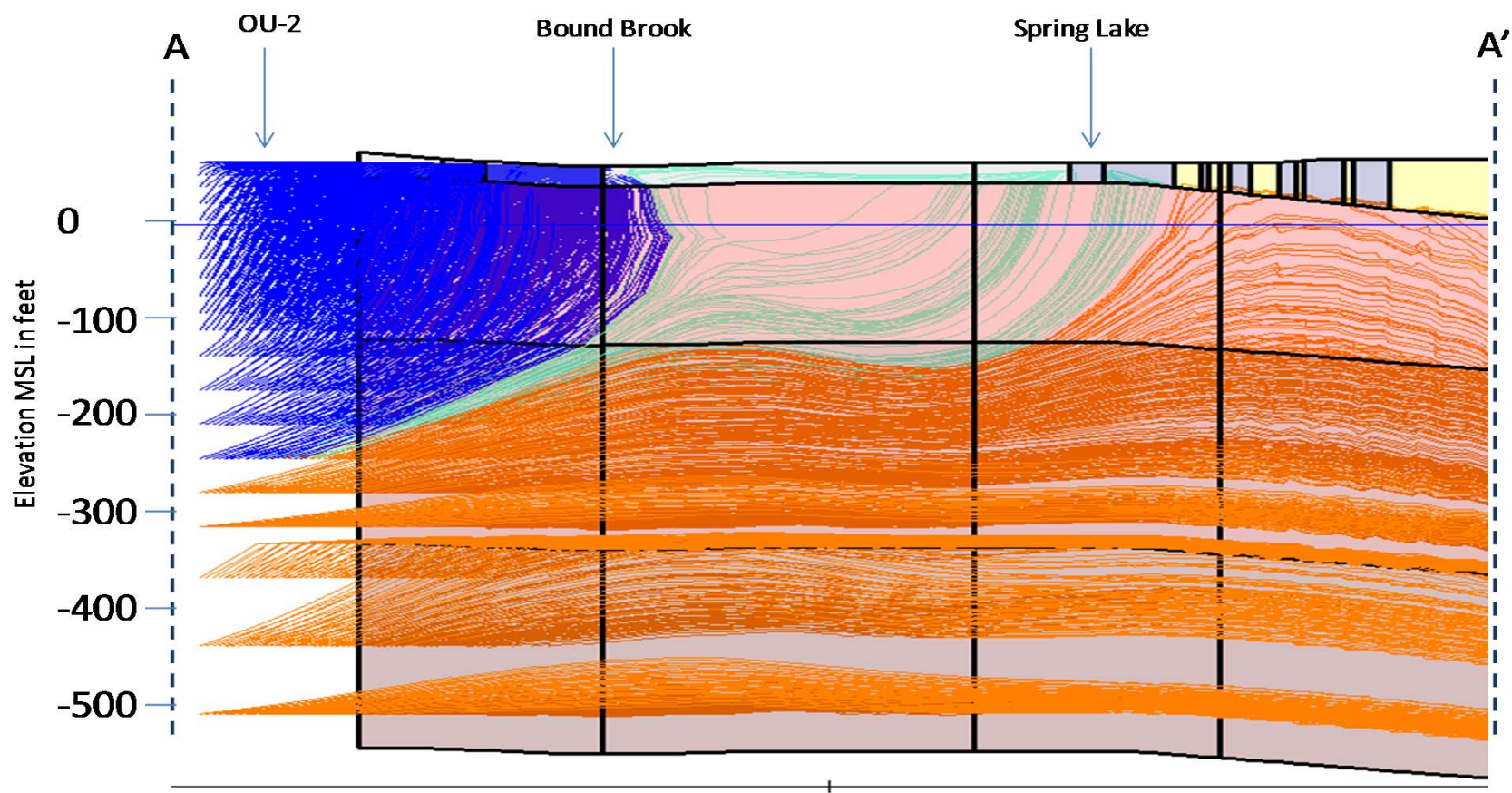
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**OU3 RI Model-Predicted Particle Traces from
Former CDE Facility Based on 2010 Pumping**
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Figure 3-9a

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**OU3 RI Model-Predicted Particle Traces from
Former CDE Facility Based on 2010 Pumping**

Cross Section A – A'
Bound Brook OU4 RI/FS

2014

Figure 3-9b



Legend

— Existing Water Line

▨ Former CDE Facility

Notes:
Utility Data provided by
New Jersey American Water.

Aerial Base Map Service -
obtained by ESRI provided by
Microsoft Corp © 2008 - 2012.



0 50 100 200 300 400
Feet

Existing Water Line

Source: Esri, DigitalGlobe, GeoEye, I-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



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Figure 3-10

